



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

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If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE
(800) 424-8393
Wash. D.C. Area 366-0123

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

Case Veh. (A): 1999 Pontiac
 Type: Grand AM SE, 4-door sedan
 Driver: 20-year-old female
 CDC: 02-RYEW-3, 12-FDEW-1

Vehicle (B): 1993 Ford
 Type: Bronco 4x4, 2-door MPV
 Driver: 54-year-old female
 CDC: 99-ØØØØ-Ø

Situation

(Slide 1, 2) The weather was clear, the roads were dry, and it was daylight. Case vehicle (A) was stopped facing east at a 4-leg intersection in the eastbound lane of a 2-lane asphalt road in a rural area. Vehicle (B) was traveling west at an estimated speed of 35 mph (56 kph) in the westbound lane of the 2-lane roadway. The intersection is at the top of a hill, and is posted with 3-way stop signs at the north, east, and south corners. Westbound traffic does not have to stop at the intersection. As vehicle (B) approached the intersection with the right-of-way, the driver of case vehicle (A) began crossing the westbound lane, so as to travel north on the intersecting road. The driver of vehicle (B) was unable to avoid striking the right side of case vehicle (A) with its front. (Slide 3, 4) After the impact, case vehicle (A) rotated counterclockwise, exited the northwest edge of the road, struck a guardrail with its front-end, and came to rest against the guardrail just off the roadway, facing in a northwest direction.

(Slide 5 - 14) Using the SMASH accident-reconstruction program and c-values measured for case vehicle (A), the following Equivalent Barrier Speeds were calculated for both impacts:

Vehicle (impact #1)	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	34 (21)	-17 (-11)	-30 (-19)

Vehicle (impact #2)	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	12 (7)	-12 (-7)	0 (0)

Exterior Damage

(Slide 15) Damage to the right side of case vehicle (A) was moderate with a maximum crush of 31 cm to the right-front fender just forward of the A-pillar. The direct damage began at the rear portion of the right-front fender and extended 280 cm rearward along the right side. (Slide 16) The right-front fender was crushed, both right-side doors were damaged and jammed closed, and the right upper and lower A-pillars and B-pillars were deformed. (Slide 17) Also, the right-front wheel was damaged, but there was no change in right wheelbase. (Slide 18) The right-side impact damaged the right portion of the hood, allowing the rear edge of the hood to elevate. (Slide 19) Deformation of the right-upper A-pillar caused the right side of the windshield to break. (Slide 20) There was no damage to the left side and no change in the left wheelbase.

(Slide 21) The second impact to the front of case vehicle (A) was minor with a maximum crush of 2 cm to the left-front bumper corner. The direct damage extended 139 cm across the front bumper. (Slide 22) There were scratches on the front bumper and front facia. (Slide 23) The right-front headlight was displaced, but not broken. There was no other frontal damage from the second impact.

Interior Damage

(Slide 24, 25) This vehicle is equipped with steering-wheel and passenger frontal impact airbags, which may have deployed during the first impact to the right side or the minor frontal impact. (Slide 26) There was makeup on the steering-wheel airbag skin, but no visible damage. (Slide 27) There was no damage to the steering wheel and no rotation of the steering column. (Slide 28, 29) There was no damage to the upper or mid portions of the instrument panel, and the knee bolster had a 7-cm scuff mark from driver contact.

(Slide 30, 31, 32) The center console, glove compartment, and the ashtray were damaged and, in the right-front seat area, the door hardware and armrest were damaged. (Slide 33) Also, the right A-pillar, and the right-rear door panel were deformed. (Slide 34) The rear-view mirror contacted and cracked the upper-center portion of the windshield. The right-front seat backrest and cushion were damaged, and the seatback was rotated to the right due to door intrusion. Also, the right-front seat adjuster was jammed.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
Front right	Side door	16	to left
	Kickpanel	27	to left
	A-pillar	8	to left
	B-pillar	12	to left

Occupant Kinematics and Injuries

(Slide 35, 36, 37) The 20-year-old female driver was wearing the 3-point belt, as evidenced by a webbing imprint on the D-ring from the shoulder portion of the webbing and, damage to the plastic covering the belt retractor system. She reportedly had the seat in the full-forward seat track position, and the tilt steering-wheel in the lowest position. Her right hand was reportedly on the steering wheel and her left hand was on her left leg. The shoulder-belt anchor point was adjusted to the mid position on the B-pillar.

During the first impact, she moved to the right and forward against the belts and possibly from the deploying airbag. She sustained contusions to her left and right lower ribs, probably from the belts or the deploying airbag. (Slide 38) She sustained a contusion to the left side of her nose, and contusions around her left and right eyes, from the deploying airbag, as indicated by makeup on the steering-wheel airbag skin. She sustained cervical strain from impact forces or related to the airbag deployment. In addition, she sustained a contusion to her left anterior forearm and an abrasion to the top of her right

thumb, from the deploying airbag. (Slide 39) She sustained contusions to her left and right knees from contact with the knee bolster.

(Slide 40) The attached table summarizes the injury information for the driver.

Occupant: Driver
Restraints: 3-point belt worn; airbag deployed

Age: 20 years
Stature: 163 cm (5 ft 4 in)

Sex: Female
Mass: 59 kg (130 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Cervical strain	1		Impact forces, airbag	
Contusion, left side of nose	1	Airbag		
Contusion, around left eye	1	Airbag		
Contusion, around right eye	1	Airbag		
Contusion, lower right ribs	1		Shoulder portion of 3-point belt, airbag	
Contusion, lower left ribs	1		Shoulder portion of 3-point belt, airbag	
Contusion, left anterior forearm	1	Airbag		
Abrasions, top of right thumb	1		Airbag	
Contusion, left knee	1	Knee bolster		
Contusion, right knee	1	Knee bolster		
<u>Maximum A.I.S. Level</u>	1			
<u>Injury Severity Score</u>	3			

TIME DATE OF COLLISION		ENVIRONMENTAL CONDITIONS	
<hr/> <hr/>		CONSTRUCTION ZONE	
		(0) NO (1) YES (9) UNKNOWN	<u>O</u> 33
HOUR OF COLLISION (24 HOUR CLOCK)		ROAD ALIGNMENT VERTICAL PLANE	<u>2</u> 34
<hr/> <hr/>		(1) LEVEL (2) CREST OF HILL (3) SLOPE (2%) (4) BOTTOM OF HILL (9) UNKNOWN	
LOCATION		ROAD ALIGNMENT HORIZONTAL PLANE	<u>1</u> 35
STATE: _____		(1) STRAIGHT (2) CURVE (3) T - SHAPED (4) Y - SHAPED (7) OTHER: _____ (9) UNKNOWN	
STATE FIPS CODE		<u>25</u> <u>26</u>	
AREA		<u>27</u>	
(1) URBAN (2) RURAL (9) UNKNOWN			
ENVIRONMENTAL CONDITIONS		SURFACE COVERING	<u>1</u> 36 <u>C</u> 37
LIMITED-ACCESS HIGHWAY		(10) DRY (21) WATER - DAMP (22) WATER - WET (23) WATER - PUDDLED (29) WATER - AMOUNT UNKNOWN	
<hr/> <hr/>		(31) SNOW - LOOSE (32) SNOW - PACKED (39) SNOW - CONDITION UNKNOWN	
ROAD, TOTAL TRAFFIC LANES (FOR CASE VEHICLE)		(41) ICE (51) SLUSH (61) SPILLED GRAVEL (71) OTHER: _____ (99) UNKNOWN	
<hr/> <hr/>			
(1) 1-LANE (2) 2-LANES (3) 3-LANES (4) 4 OR MORE LANES (5) DIVIDED, 4 OR MORE LANES (6) PARKING LOT/DRIVeway (7) OTHER: _____ (9) UNKNOWN		<u>29</u>	
INTERSECTING RD, TOTAL LANES CHOOSE FROM ABOVE LIST, OR			
(8) NOT APPLICABLE		<u>2</u>	
TYPE OF ROAD SURFACE			<u>1</u> 38
<hr/> <hr/>			
(1) ASPHALT (2) CONCRETE (3) GRAVEL (4) MORE THAN ONE (CIRCLE EACH) (7) OTHER: _____ (9) UNKNOWN		<u>31</u>	
ROAD DEFECTS			<u>O</u> 39
<hr/> <hr/>			
(0) NO (1) YES (9) UNKNOWN		<u>32</u>	
VISIBILITY LIMITATION (FOR CASE VEHICLE)		VISIBILITY OBSTRUCTION (FOR CASE VEHICLE)	
		(0) NONE (1) BUILDING (2) SIGN (3) VEGETATION (E.G. BUSHES, SHRUBS) (4) TREE (5) HILL OR CURVE IN ROAD (6) VEHICLE IN TRANSPORT (7) OTHER: _____ (8) PARKED VEHICLE (9) UNKNOWN	

ENVIRONMENTAL CONDITIONS

SPEED LIMIT

(0) 5-45 km/h 5-25 mph
 (1) 46-55 30
 (2) 56-60 35 -
 (3) 61-70 40
 (4) 71-79 45
 (5) 80-85 50
 (6) 86-90 55
 (7) 91-105 60
 (8) OVER 105 65
 (9) UNKNOWN

PRECIPITATION

(0) NONE
 (1) RAIN
 (2) SNOW
 (3) HAIL
 (4) FREEZING RAIN/SLEET
 (7) OTHER: _____
 (9) UNKNOWN

RATE OF PRECIPITATION

(1) LIGHT/MIST
 (2) MODERATE
 (3) HEAVY
 (8) NOT APPLICABLE
 (9) UNKNOWN

TEMPERATURE

(0) BELOW -15° C BELOW 5° F
 (1) -15 TO -6 5 TO 22
 (2) -5 TO -1 23 TO 31
 (3) 0 TO 2 32 TO 36
 (4) 3 TO 5 37 TO 41
 (5) 6 TO 15 42 TO 59
 (6) 16 TO 25 60 TO 77
 (7) 26 TO 35 78 TO 95
 (8) OVER 35 OVER 96
 (9) UNKNOWN

CROSSWIND

(0) NONE
 (1) LIGHT
 (2) STRONG
 (3) GUSTY & STRONG
 (9) UNKNOWN

LIGHT CONDITIONS

(1) DAYLIGHT
 (2) DAWN
 (3) DUSK
 (4) DARK, LIGHTED
 (5) DARK, UNLIGHTED
 (6) DARK, UNKNOWN IF LIGHTED
 (9) UNKNOWN

2
38

MECHANICAL MALFUNCTION

WAS THERE MENTION
OF A MECHANICAL MALFUNCTION
IN CASE VEHICLE

(0) NO
 (1) YES
 (2) YES, DID NOT CONTRIBUTE
TO ACCIDENT
 (9) UNKNOWN

0
440
39THE FOLLOWING SECTION SHOULD BE FILLED
OUT IF A MECHANICAL MALFUNCTION IS
RECOGNIZED OR SUSPECTED.CIRCLE ITEMS INVOLVED. SUPPORT ANY
ITEMS CIRCLED WITH COMMENTS.8
40

BRAKE SYSTEM	DRIVER CONTROLS
EXHAUST SYSTEM	POWER TRAIN
STEERING SYSTEM	FUEL SYSTEM
SUSPENSION SYSTEM	VISIBILITY ITEMS
ELECTRICAL SYSTEM	TIRES
THROTTLE CONTROLS	UNKNOWN

9
41

OTHER: _____

COMMENTS: _____

9
421
43

CRASH DETAILS		HIGHEST POLICE INJURY SEVERITY CODE IN CRASH (NOT JUST CASE VEHICLE)		
CASE VEHICLE AND OBJECT (0) NO (1) YES (9) UNKNOWN		1 45	(0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING INJURY (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO ACCIDENT (7) NON-FATAL INJURY SEVERITY UNKNOWN (9) UNKNOWN	O 53
CASE VEHICLE ROLLOVER (0) NO ROLLOVER (1) YES, FIRST EVENT (2) YES, SUBSEQUENT EVENT (3) YES, SEQUENCE UNKNOWN (9) UNKNOWN		O 46		
CASE VEHICLE RAN OFF ROADWAY (BEFORE FIRST IMPACT) (0) NO (1) YES (9) UNKNOWN		O 47	DRIVER IMPAIRMENT DRIVER ALCOHOL INVOLVEMENT (CASE VEHICLE) (0) NONE (1) YES (9) UNKNOWN/NOT REPORTED/ NO DRIVER	O 54
MOVING CASE VEHICLE AND CONTACTED MOVING VEHICLE (0) NO (1) YES (9) UNKNOWN		1 48	DRIVER ALCOHOL BAC (CASE VEHICLE) (80) NO TEST (90) CHEMICAL TESTS, NO RESULTS (95) AUTOPSY, NO RESULTS (99) UNKNOWN	80 55 56
CASE VEHICLE AND CONTACTED STOPPED VEHICLE (0) NO (1) YES (9) UNKNOWN		O 49	WAS THERE MENTION OF DRIVER IMPAIRMENT FOR CASE VEHICLE? (0) NO (1) YES (9) UNKNOWN	O 57
STOPPED CASE VEHICLE AND CONTACTED VEHICLE (0) NO (1) YES (9) UNKNOWN		O 50	LIST IMPAIRMENTS MENTIONED: <hr/> <hr/> <hr/>	
TOTAL NUMBER OF VEHICLES CONTACTED BY CASE VEHICLE IN CRASH (8) 8 OR MORE (9) UNKNOWN		1 51	Post - Crash Detail MANNER CASE VEHICLE LEFT SCENE (1) DRIVEN (2) TOWED DUE TO DAMAGE (3) TOWED, NOT DUE TO DAMAGE (4) TOWED, REASON UNKNOWN (9) UNKNOWN	
ANY FIRE IN THIS CRASH (NOT JUST CASE VEHICLE) (0) NO (1) YES (9) UNKNOWN		O 52	Q 58	

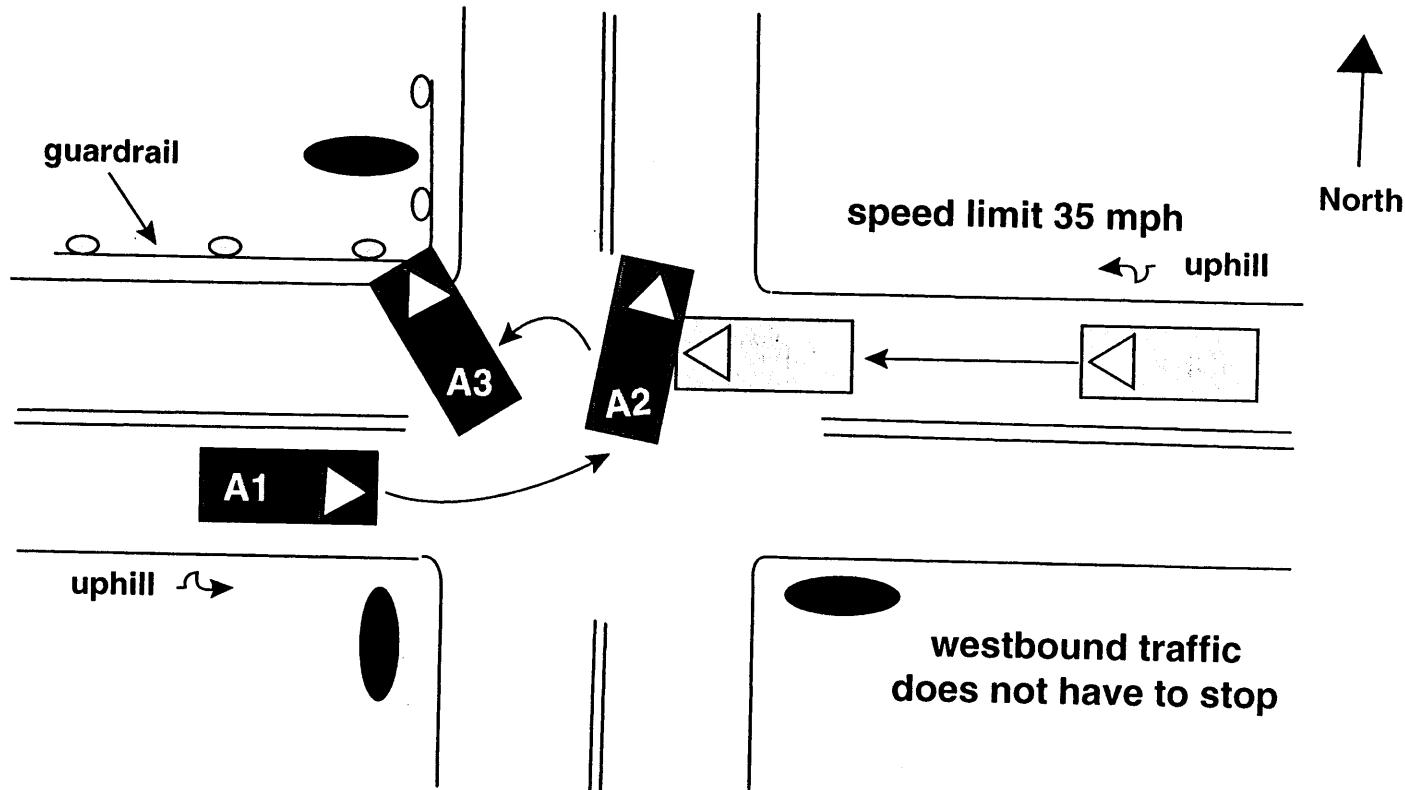
ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: CASE VEHICLE (A) WAS STOPPED FACING EAST AT A 4-LEG INTERSECTION. VEHICLE (B) WAS WESTBOUND AT AN ESTIMATED SPEED OF 35 MPH (56 KPH) AND HAD THE RIGHT-OF-WAY AT A 3-WAY STOP POSTED INTERSECTION. AS VEHICLE (B) WAS PROCEEDING THROUGH THE INTERSECTION, THE DRIVER OF CASE VEHICLE (A) ATTEMPTED TO MAKE A LEFT TURN AND WAS STRUCK IN THE RIGHT SIDE. AFTER THE IMPACT, CASE VEHICLE (A) STRUCK A GUARDRAIL.

CASE VEHICLE (A): 1999 PONTIAC GRAND AM
OTHER VEHICLE (B): 1993 FORD BRONCO
THIRD VEHICLE (C):

Q
4

NORTH



Duplicate columns 1-8
from the previous card.

Module O V Format 0 4
9 10 11 12

OTHER VEHICLE OV-1

MAKE: FORD
MODEL: BRONCO MPV 4x4 2-door

CARGO: UNKNOWN

VIN

1FMEU15H3P XXXXXXXXXX

13

29

MANUFAC/BODY CODE

12115

30

34

15

56 57

MAKE/MODEL CODE

3125

38

MODEL YEAR

1993

39

42

VEHICLE MASS (kg)

002074

43

48

IF SEPARATE REPORT WAS MADE,
GIVE VEHICLE NUMBER

NUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN)

01

51

TRAVELING SPEED (km/h)

056

54

- (000) PARKED OR STOPPED
- (995) JUST STARTING UP
- (996) BACKING UP
- (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
- (998) SPEED EXCESSIVE (BUT UNKNOWN)
- (999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY
CODE FOR THIS VEHICLE

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO ACCIDENT
- (7) NON-FATAL INJURY
 SEVERITY UNKNOWN
- (8) UNOCCUPIED VEHICLE
 (NOT APPLICABLE)
- (9) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP CAR
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
 E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
 E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOOSTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)

(999) UNKNOWN

266

58 59 60

Duplicate columns 1-8
from the previous card.

Module O
9 V
10 Format 0
11 2
12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase 266 cm

Front Overhang

084 cm
22 24

Curb Weight 2074 kg

Rear Overhang

116 cm
25 27

Average Track Width 164 cm
13 15

Undeformed End Width (UEW) 999 cm
28 30

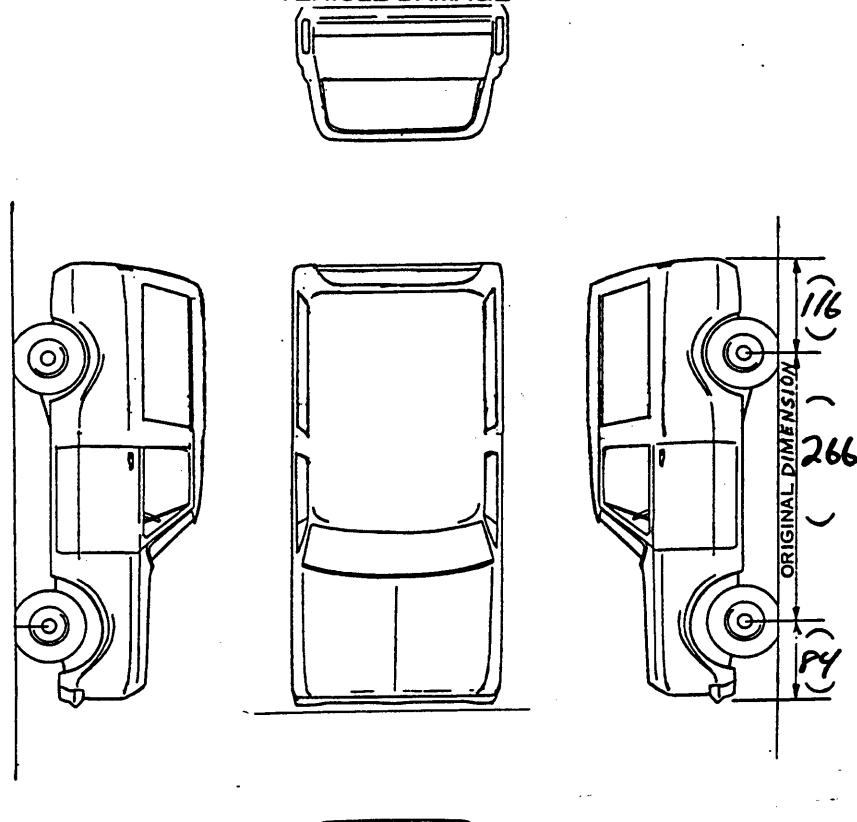
Overall Length 466 cm
16 18

Engine Displacement 5.8 L
31 32

Overall Width (OAW) 201 cm
19 21

Engine: # of Cylinders 08
33 34

VEHICLE DAMAGE



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 999 cm
35 37

Front-End Overlap (Percent) = DDL
 UEW

99%
38 39

Vehicle Overlap (Percent) = DDL + 1/2 (OAW - UEW)
 OAW

99%
40 41

Duplicate columns 1-8
from the previous card.

Module V 9 D 10 Format 0 11 4 12

VEHICLE DESCRIPTION VD-1

MAKE: PONTIAC

CARGO: NONE

MODEL: GRAND AM SE 4-DOOR

VIN

1 G 2 N E 5 2 E 2 X M

13

29

MANUF/BODY CODE

1 1 5 2 8

30

34

MAKE/MODEL CODE

0 3 3 1

38

MODEL YEAR

1 9 9 9

39

42

VEHICLE MASS (kg)

0 0 1 3 8 6

43

48

ODOMETER (km)

(ENTER 9'S IF UNKNOWN)

(ENTER 8'S IF ELECTRONIC)

8 8 8 8 8 8

49

54

NUMBER OF OCCUPANTS

(ENTER 9'S IF UNKNOWN)

0 1

56

TRAVELING SPEED (km/h)

9 9 5

59

(000) PARKED OR STOPPED

(995) JUST STARTING UP

(996) BACKING UP

(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)

(998) SPEED EXCESSIVE (BUT UNKNOWN)

(999) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

(11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)

(12) 2-DOOR SEDAN OR COUPE
(ANY UPPER B-PILLAR)

(13) 4-DOOR HARDTOP

(14) 4-DOOR SEDAN

(15) STATION WAGON

(16) CONVERTIBLE

(18) OTHER PASS. VEH. :

(19) PASSENGER VEHICLE, TYPE UNKNOWN

1 4

60

61

MULTIPURPOSE PASSENGER VEHICLE

(21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)

(22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)

(23) VAN, SIZE UNKNOWN

(24) VAN, SMALL (MINI)

(25) VAN, LARGE

(29) MPV, TYPE UNKNOWN

(30) MOTOR HOME

TRUCK

(31) PICKUP TRUCK, UNKNOWN

(32) PICKUP TRUCK, SMALL (DOWNSIZED)

(33) PICKUP TRUCK, LARGE

(99) UNKNOWN

STOLEN VEHICLE

(0) NO

(1) YES

(8) NOT COLLECTED

(9) UNKNOWN

8

62

BODY STRUCTURE

(1) BODY & FRAME

(2) UNITIZED

(3) INTEGRAL-STUB FRAME

(4) BODY & PLATFORM FRAME

(E.G. VW BUG)

(5) PARTIALLY UNITIZED

(7) OTHER: _____

(9) UNKNOWN

2

63

TRANSMISSION

(0) NONE

(1) AUTOMATIC

(2) MANUAL

(9) UNKNOWN

1

64

LOCATION OF TRANSMISSION
SELECTOR LEVER

(1) FLOOR

(2) CONSOLE

(3) COLUMN

(7) OTHER: _____

(9) UNKNOWN

2

65

STEERING

(1) POWER

(2) MANUAL

(9) UNKNOWN

1

66

BRAKES

(1) POWER

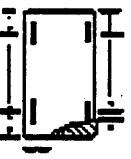
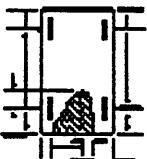
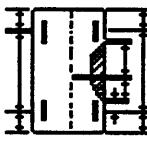
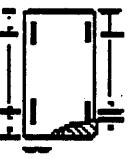
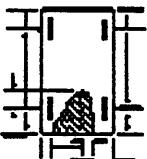
(2) MANUAL

(9) UNKNOWN

1

67

VEHICLE DESCRIPTION VD-2

TYPE OF BRAKES (1) DRUM, ALL WHEELS (2) DISC, FRONT WHEELS (3) DISC, ALL WHEELS (9) UNKNOWN	<u>2</u> 68	WHEELBASE (cm) (999) Unknown	<u>271</u> 76 77 78
BRAKE ANTI-LOCK DEVICE (0) NONE INSTALLED (1) TWO-WHEEL (2) FOUR-WHEEL (7) EQUIPPED, UNKNOWN WHEELS (9) UNKNOWN	<u>2</u> 69	PLASTIC ANTI-LACERATIVE INNER LAYER GLASS EQUIPPED (0) NONE (1) WINDSHIELD (2) WINDSHIELD AND SIDE (7) OTHER (9) UNKNOWN	<u>0</u> 79
AIR CONDITIONING IN VEHICLE (0) NO (1) YES (8) NOT COLLECTED (9) UNKNOWN	<u>8</u> 70		
TYPE OF DRIVE (1) REAR WHEEL (2) FRONT WHEEL (3) FOUR WHEEL (4) ALL WHEEL DRIVE (9) UNKNOWN	<u>2</u> 71	FIELD INVESTIGATOR INSTRUCTIONS: 1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE. 2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE. 3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR. 4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.	
DUAL REAR WHEELS (0) NO (1) YES (9) UNKNOWN	<u>0</u> 72	EXAMPLES:  	
ORIGINAL TYPE OF RESTRAINT SYSTEM (1) ACTIVE BELT (2) PASSIVE BELT (3) AIRBAG (4) KNEE BOLSTERS (7) OTHER: _____ (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<u>3</u> 73 DUAL		
EQUIPPED WITH ROLL BAR (0) NO (1) YES (9) UNKNOWN	<u>0</u> 74		
TYPE OF ROOF (0) NONE (1) SOLID (2) T-TOP CLOSED (3) T-TOP OPEN (4) SUN ROOF CLOSED (5) SUN ROOF OPEN (6) CONVERTIBLE CLOSED (7) CONVERTIBLE OPEN (8) OTHER: _____ (9) UNKNOWN	<u>1</u> 75	 	

**Duplicate columns 1-8
from the previous card.**

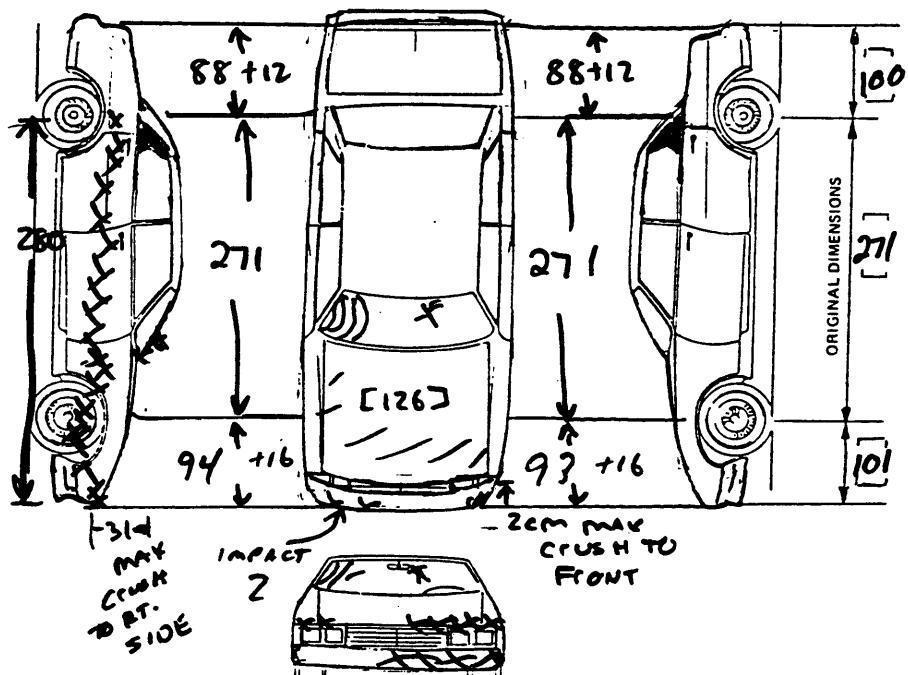
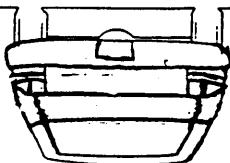
Module V D **Format** 0 2
9 10 11 12

VEHICLE DESCRIPTION

ORIGINAL SPECIFICATIONS

Wheelbase	<u>271</u>	cm	Front Overhang	<u>101</u>	cm
Curb Weight	<u>1386</u>	kg	Rear Overhang	<u>100</u>	cm
Average Track Width	<u>149</u>	cm	Undeformed End Width (UEW)	<u>139</u>	cm
	13 15			28 30	
Overall Length	<u>473</u>	cm	Engine Displacement	<u>3.4</u>	L
	16 18			31 32	
Overall Width (OAW)	<u>179</u>	cm	Engine: # of Cylinders	<u>06</u>	
	19 21			33 34	

VEHICLE DAMAGE



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 1 3 9 cm
35 37

$$\text{Front-End Overlap (Percent)} = \frac{\text{DDL}}{\text{UEW}} = \frac{139}{139}$$

98 %
38 38

$$\text{Vehicle Overlap (Percent)} = \frac{\text{DDL} + 1/2(\text{OAW} - \text{UEW})}{\text{OAW}} \quad \underline{\hspace{10cm}}$$

98%
40 41

Duplicate columns 1-8
from the previous card.

Module D
9 A
10 Format 0
11 2
12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	<u>1</u> <u>999</u> 14 15 16	VEH.B <u>999</u> 35 36 37
IMPACT SPEED (km/h)		
ESTIMATED BY	<u>1</u> 17	<u>1</u> 38
CRUSH (cm)	<u>031</u> 18 19 20	<u>999</u> 39 40 41
CDC #1	<u>02.R Y E W . 3</u> 21 27	<u>99.0000 . 0</u> 42 48
CDC #2	<u>98.0000 . C</u> 28 34	<u>99.0000 . 0</u> 49 55

Duplicate columns 1-8
from the previous card.

Module D
9 A
10 Format 0
11 3
12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	<u>2</u> <u>999</u> 14 15 16	GUARDRAIL <u>998</u> 35 36 37
IMPACT SPEED (km/h)		
ESTIMATED BY	<u>1</u> 17	<u>1</u> 38
CRUSH (cm)	<u>002</u> 18 19 20	<u>998</u> 39 40 41
CDC #1	<u>12.F D E W . 1</u> 21 27	<u>98.0000 . 0</u> 42 48
CDC #2	<u>98.0000 . C</u> 28 34	<u>98.0000 . C</u> 49 55

CODES

EVENT NUMBER	IMPACT SPEED ESTIMATOR	CRUSH
(8) NOT APPLICABLE	(1) INVESTIGATOR	(998) NOT APPLICABLE
(9) UNKNOWN	(2) DRIVER	(NO VEHICLE/DAMAGE)
IMPACT SPEED	(3) POLICE	(999) UNKNOWN
(998) NOT APPLICABLE	(4) "CRASH" PROGRAM	
(999) UNKNOWN	(5) OTHER COMPUTER PROGRAM	CDC
	SPECIFY: _____	
	(7) OTHER: _____	(9800000) NOT APPLICABLE
	(8) NOT APPLICABLE	(9900000) UNKNOWN
	(NO VEHICLE/NO IMPACT)	

Duplicate columns 1-8
from the previous card.

Module D 9 A 10 Format 0 11 1 12

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 0 0 2
13 15

RIGHT SIDE 0 3 1
16 18

REAR 0 0 0
19 21

LEFT SIDE 0 0 0
22 24

ROOF 0 0 0
25 27

OTHER 0 0 0
28 30

CHRONOLOGICAL SEQUENCE OF DAMAGE/INJURY PRODUCING CRASH EVENTS FOR CASE VEHICLE

NOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.

DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER? 1

31

(0) NO
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>1</u> 32	<u>41</u> 34	<u>15</u> 36
#2	<u>2</u> 37	<u>17</u> 39	<u>91</u> 41
#3	<u>—</u> 42	<u>—</u> 44	<u>—</u> 46
#4	<u>—</u> 47	<u>—</u> 49	<u>—</u> 51
#5	<u>—</u> 52	<u>—</u> 54	<u>—</u> 56
#6	<u>—</u> 57	<u>—</u> 59	<u>—</u> 61
#7	<u>—</u> 62	<u>—</u> 64	<u>—</u> 66

**CODES FOR
IMPACT CONFIGURATION****FRONT OF CASE VEHICLE**

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPE BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPE BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPE BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPE BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT
- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZE

WHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107", E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107", E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8
from the previous card.

Module C 9 R 10 Format 0 11 1 12

CRASH RECONSTRUCTION CR-1
for ΔV

	CASE VEHICLE PRIMARY IMPACT				CASE VEHICLE SECONDARY IMPACT			
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE				
EVENT NUMBER	1 13		2 47					
ΔV (km/h)	TOTAL	9 - 14 15 16	9 - 32 33 34	0 1 2 48 49 50	8 - 66 67 68			
	LONGITUDINAL*	9 - 17 ----- 20	9 - 35 ----- 38	- 0 1 2 51 ----- 54	8 - 69 ----- 72			
	LATERAL*	9 - 21 ----- 24	9 - 39 ----- 42	1 0 0 0 55 ----- 58	8 - 73 ----- 76			
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN.								
EXAMPLES: 10 km/h = +0 1 0 -7 km/h = -0 0 7								
ENERGY DISSIPATED BY CRUSH (kj)	9 - 25 ----- 28	9 - 43 ----- 46	0 0 0 8 59 ----- 62	8 - 77 ----- 80				
RECONSTRUCTION	1 2 29 30		2 2 63 64					
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL								
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL								
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL								
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL								
NOT RECONSTRUCTED BECAUSE								
(02) INSUFFICIENT DATA								
(03) EXCESSIVE UNDERIDE/ OVERRISE								
(04) ROLLOVER								
(05) VAULTING								
(06) OTHER TRAVEL IN MORE THAN ONE PLANE								
(07) NON-HORIZONTAL FORCE								
(08) SIDESWIPE-TYPE DAMAGE								
(09) YIELDING OBJECT								
(10) OTHER: _____								
(11) AT LEAST ONE VEHICLE BEYOND SCOPE								
(12) OTHER VEHICLE NOT INSPECTED								
MODE	5 31		2 65					
(1) CDC ONLY								
(2) CDC & DETAILED DAMAGE								
(3) TRAJECTORY & CDC								
(4) TRAJECTORY & CDC & DETAILED DAMAGE								
(5) NOT RECONSTRUCTED								
COMPUTER PROGRAM SPECIFY: <i>W1 N3 M3 P1 R1</i>								

Duplicate columns 1-8
from the previous card.

Module C R Format 0 2
 9 10 11 12

CRASH RECONSTRUCTION CR-2
for EBS

	CASE VEHICLE PRIMARY IMPACT				CASE VEHICLE SECONDARY IMPACT			
	CASE VEHICLE		CONTACTED VEHICLE		CASE VEHICLE		CONTACTED VEHICLE	
	EVENT NUMBER							
EBS (km/h)	TOTAL	<u>0</u> <u>3</u> <u>4</u> <u>14</u> <u>15</u> <u>16</u>	<u>9</u> — <u>32</u> <u>33</u> <u>34</u>	<u>2</u> <u>47</u>	<u>0</u> <u>1</u> <u>2</u> <u>48</u> <u>49</u> <u>50</u>	<u>8</u> — <u>66</u> <u>67</u> <u>68</u>		
	LONGITUDINAL*	<u>-</u> <u>0</u> <u>1</u> <u>7</u> <u>17</u> <u>20</u>	<u>9</u> — <u>35</u> <u>38</u>	<u>-</u> <u>0</u> <u>1</u> <u>2</u> <u>51</u> <u>54</u>	<u>8</u> — <u>69</u> <u>72</u>			
	LATERAL*	<u>-</u> <u>0</u> <u>3</u> <u>0</u> <u>21</u> <u>24</u>	<u>9</u> — <u>39</u> <u>42</u>	<u>+</u> <u>0</u> <u>0</u> <u>0</u> <u>55</u> <u>58</u>	<u>8</u> — <u>73</u> <u>76</u>			
	NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.							
	EXAMPLES: 10 km/h = ±0.10 -7 km/h = -0.07							
	ENERGY DISSIPATED BY CRUSH (kj)	<u>0</u> <u>0</u> <u>6</u> <u>6</u> <u>25</u> <u>28</u>	<u>9</u> — <u>43</u> <u>46</u>	<u>0</u> <u>0</u> <u>0</u> <u>8</u> <u>59</u> <u>62</u>	<u>8</u> — <u>77</u> <u>80</u>			
	RECONSTRUCTION							
	(01) REconstructed, UNKNOWN CONFIDENCE LEVEL	<u>2</u> <u>2</u> <u>29</u> <u>30</u>		<u>2</u> <u>2</u> <u>63</u> <u>64</u>				
	(21) REconstructed, LOW CONFIDENCE LEVEL							
	(22) REconstructed, MODERATE CONFIDENCE LEVEL							
	(23) REconstructed, HIGH CONFIDENCE LEVEL							
	NOT REconstructed BECAUSE							
	(02) INSUFFICIENT DATA							
	(03) EXCESSIVE UNDERRIDE/ OVERRIde							
	(04) ROLLOVER							
	(05) VAULTING							
	(06) OTHER TRAVEL IN MORE THAN ONE PLANE							
	(07) NON-HORIZONTAL FORCE							
	(08) SIDESWIPE-TYPE DAMAGE							
	(09) YIELDING OBJECT							
	(10) OTHER: _____							
	(11) AT LEAST ONE VEHICLE BEYOND SCOPE							
	(12) OTHER VEHICLE NOT INSPECTED							
	MODE							
	(1) CDC ONLY	<u>2</u> <u>31</u>		<u>2</u> <u>65</u>				
	(2) CDC & DETAILED DAMAGE							
	(3) TRAJECTORY & CDC							
	(4) TRAJECTORY & CDC & DETAILED DAMAGE							
	(5) NOT REconstructed							
	COMPUTER PROGRAM SPECIFY: <u>WPSMAB4</u>							

Duplicate columns 1-8
from the previous card.

Module C R Format 0 3
 9 10 11 12

CRASH RECONSTRUCTION CR-3

NOTES: 1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.

2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.

3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.

4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage			Location of Field L							
1	<i>BEGINS 6cm FORWARD OF REAR AXLE</i>			<i>BEGINS AT RIGHT - FRONT FENDER.</i>							
2	<i>BEGINS AT LEFT - FRONT BUMPER CORNER</i>			<i>BCTO 8c</i>							
SIZE - 3											
STIFF - 3 OR 9(FR)											
VIEW - 135											
WEIGHT w/ OCC - 1445											
PLANE:											
(1) Bumper											
(2) Above Bumper											
(3) Sill											
(4) Above Sill											
(5) Other _____											
(9) Unknown											
CRUSH PROFILE IN CENTIMETERS											
NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.											
Specific Impact Number	Plane of Impact C-Measur.	Direct Damage	Field L	C_1	C_2	C_3	C_4	C_5	C_6	$\pm D$	
		Length (DDL)	Max Crush								
1	4	280	34	348	0	12	24.5	32	21.5	16	+7
FREESPACE			3		0	3	2.8	3	1.5	16	
TOTAL			31		0	9	21.7	29	20	0	
1	4	280	031	348	000	009	022	029	020	000	+007
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2	1	139	18	144	16.5	4.6	1.5	1.5	4.6	18	
FREESPACE			16		16	4	1	1	4	16	
TOTAL			2		.5	.6	.5	.5	.6	2	
2	1	139	002	144	001	001	001	001	001	002	+000

Duplicate columns 1-8
from the previous card.

Module C
9 R
10 Format 0
11 4
12

CRASH RECONSTRUCTION CR-4

NOTES:

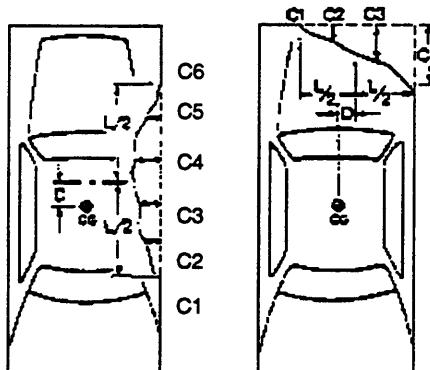
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE C₁ TO C₆ FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

OTHER VEHICLE LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L

NO
INSPECTION



PLANE:

- (1) Bumper
- (2) Above Bumper
- (3) Sill
- (4) Above Sill
- (5) Other _____
- (9) Unknown

DL _____

UDL _____

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	±D	
		Length (DDL)	Max Crush									
1												
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45	
2												

Duplicate columns 1-8
from the previous card.

Module W
9 T
10 Format 0
11 1
12

WHEELS AND TIRES

WT-1

WHEELS--DAMAGED

(0) NO
(1) YES
(9) UNKNOWN

LF 0
13

RF 1

RR 0

LR 0
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 215 75 R 16
25

RF _____
35

RR _____
45

LR _____
55

TIRE TREAD TYPE

(1) REGULAR
(2) SNOW
(3) SLICKS
(4) ALL WEATHER (MS)
(7) OTHER:
(9) UNKNOWN

LF 4
17

RF 4

RR 4

LR 4
20

CARCASS CONSTRUCTION

(1) BIAS
(2) BELTED BIAS
(3) RADIAL
(4) ELLIPTICAL
(5) HI PRESSURE SPARE
(6) SPACE SAVER SPARE
(7) OTHER:
(9) UNKNOWN

LF 3
21

RF 3

RR 3

LR 3
24

IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.

NOTES: _____

Duplicate columns 1-8
from the previous card.

Module F 9 T 10 Format 0 11 1 12

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL		AUXILIARY TANK TYPE	
(1) GASOLINE (2) DIESEL OIL (3) LPG (4) ELECTRIC (7) OTHER: _____ (9) UNKNOWN	1 13	(1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	8 21
MAIN TANK LOCATION	322 14 16	AUXILIARY TANK LOCATION	888 22 24
MAIN FILLER CAP LOCATION	113 17 19	AUXILIARY FILLER CAP LOCATION	888 25 27
MAIN TANK MATERIAL	9 20	AUXILIARY TANK MATERIAL	8 28

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.(1) YES COMPLETE PAGE.13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	14 15	—	—	—	—	21
#2	22 23	—	—	—	—	29
#3	30 31	—	—	—	—	37
#4	38 39	—	—	—	—	45
#5	46 47	—	—	—	—	53

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) Ruptured
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT
(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F 9 R 10 Format 0 11 1 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.
(1) YES COMPLETE PAGE.

13


DID FIRE START IN CASE VEHICLE?

(0) NO
(1) YES
(9) UNKNOWN

14

SEVERITY OF FIRE DAMAGE

(1) MINOR
(2) MODERATE
(3) SEVERE
(9) UNKNOWN

16

FLAME PROPOGATION RATE

(1) RAPID/EXPLOSIVE
(2) SLOW/MODERATE
(9) UNKNOWN

15

DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE?

(0) NO
(1) YES
(9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8
from the previous card.

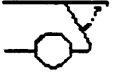
Module E
9 D
10 Format 0
11 1
12

EXTERIOR DAMAGE

ED-1

HOOD PERFORMANCE			STEERING COL FLEXIBLE COUPLING			
FOR THE FOLLOWING, USE CODES:			FLEXIBLE COUPLING TYPE			
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			<ul style="list-style-type: none"> (0) NONE (1) FLEXIBLE MATERIAL (2) POT (3) SINGLE U-JOINT (4) DOUBLE U-JOINT (5) FLEXIBLE CABLE (6) COMBINATION OF ABOVE (CIRCLE EACH) (7) OTHER: _____ (8) EQUIPPED, TYPE UNKNOWN (9) UNKNOWN, IF EQUIPPED 			
HOOD LATCH(ES)-	-RELEASED		④	COUPLING- (USE CODES FROM HOOD PERFORMANCE)	-DAMAGED 9 27	
	-DAMAGED		○			
	-JAMMED		8			
HOOD HINGES-	-LEFT,	DAMAGED	○	-SEPARATED (COMPLETE) 9 28		
	-LEFT,	SEPARATED (COMPLETE)	8			
	-RIGHT,	DAMAGED	○			
	-RIGHT,	SEPARATED (COMPLETE)	8			
HOOD REMAINED ON VEHICLE			1	ENG COMPART TELESCOPING UNIT		
			1	TYPE OF UNIT		
		1	<ul style="list-style-type: none"> (00) NONE INSTALLED (01) - (07) SEE UNITS ON PAGE ED-2 (88) NOT COLLECTED (97) OTHER: _____ (98) EQUIPPED, TYPE UNKNOWN (99) UNKNOWN IF EQUIPPED 		8 29 30	
REAR EDGE OF HOOD-	-ELEVATED		1	ORIGINAL LENGTH (mm)		
	-CONTACTED WINDSHIELD		1	F (OR H): _____		
	-PENETRATED WINDSHIELD		8	TELESCOPED LENGTH (mm)		
HOOD LATCH LOCATION			1	G: _____		
<ul style="list-style-type: none"> (1) FRONT OF VEHICLE (2) COWL AREA (3) SIDE (8) NOT APPLICABLE (9) UNKNOWN 			1	DIFFERENCE (mm)		
			1	F (OR H) - G		
			1	(IF LESS THAN 15mm, ENTER "000")		
			1	<ul style="list-style-type: none"> (888) NOT COLLECTED (991) NOT MEASURED/NO COMPRESSION (992) COMPRESSED, AMOUNT UNKNOWN (993) DEVICE EXTENDED (997) UNABLE TO BE MEASURED (998) NOT APPLICABLE (NOT EQUIPPED) (999) UNKNOWN 		8 31 33
ENGINE OR TRANSMISSION MOUNT			1			
SEPARATION (COMPLETE)			1			
<ul style="list-style-type: none"> (0) NO (1) YES (9) UNKNOWN 			1			

LEFT-SIDE BODY MOUNT			
DID BODY MOUNT SEPARATE?		<input checked="" type="checkbox"/> 34	
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			
LEFT PILLARS			
PILLARS SEPARATED COMPLETELY -			
USE CODES:			
(0) NO (1) YES (4) NO SEPARATION, BUT DAMAGED (8) NOT APPLICABLE (<i>NOT EQUIPPED</i>) (9) UNKNOWN			
-A-PILLAR, UPPER		<input type="radio"/> 35	
LOWER		<input type="radio"/> 36	-FRONT <input type="radio"/> 43
-B-PILLAR, UPPER		<input type="radio"/> 37	-REAR <input type="radio"/> 44
LOWER		<input type="radio"/> 38	
-C-PILLAR, UPPER		<input type="radio"/> 39	
LOWER		<input type="radio"/> 40	-FRONT <input type="radio"/> 45
-D-PILLAR, UPPER		<input checked="" type="checkbox"/> 41	-REAR <input type="radio"/> 46
LOWER		<input checked="" type="checkbox"/> 42	
LEFT DOORS			
HOW DID DOORS OPEN DURING COLLISION?			
USE CODES:			
(0) DOOR DID NOT OPEN OPENED BECAUSE OF			
(1) HINGE AREA SEPARATION (2) DOOR-LATCH SEPARATION (3) LATCH-STRIKER SEPARATION (4) STRIKER-PILLAR SEPARATION (5) BODY DISTORTION (6) COMBINATION OF ABOVE <i>(CIRCLE EACH)</i> (7) OPENED, REASON UNKNOWN			
(8) NOT APPLICABLE (<i>NO DOOR</i>) (9) UNKNOWN			
DOORS JAMMED CLOSED-			
USE CODES:			
(0) NO (1) YES (8) NOT APPLICABLE (<i>NO DOOR</i>) (9) UNKNOWN			

<p>REAR DOOR</p> <p>REAR DOOR TYPE</p> <p>(0) NO DOOR (INCLUDES PICKUPS) (1) HATCHBACK (2) ONE-WAY TAILGATE (3) TWO-WAY TAILGATE (4) CLAMSHELL/DISAPPEARING TAILGATE (5) SINGLE DOOR (6) DOUBLE DOOR (9) UNKNOWN</p> <p>Hatchback </p> <p>One-way  </p> <p>Two-way  or </p> <p>Clamshell </p> <p>Single door </p> <p>Double door </p> <p>HOW DID DOOR OPEN DURING COLLISION?</p> <p>(0) DOOR DID NOT OPEN OPENED BECAUSE OF</p> <p>(1) HINGE AREA SEPARATION (2) DOOR-LATCH SEPARATION (3) LATCH-STRIKER SEPARATION (4) STRIKER-PILLAR SEPARATION (5) BODY DISTORTION (6) COMBINATION OF ABOVE (CIRCLE EACH) (7) OPENED, REASON UNKNOWN (8) NOT APPLICABLE (NO DOOR) (9) UNKNOWN</p> <p>DOOR JAMMED CLOSED</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO DOOR) (9) UNKNOWN</p>	<p>47</p> <p>8</p> <p>48</p> <p>49</p>	<p>OTHER REAR DAMAGE</p> <p>WAS PARTITION TO LUGGAGE AREA DAMAGED DURING COLLISION?</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN</p> <p>SPARE TIRE</p> <p>(0) NO SPARE TIRE (1) NOT ATTACHED BEFORE COLLISION (2) ATTACHED, NOT SEPARATED IN COLLISION (3) ATTACHED, SEPARATED DUE TO COLLISION (8) NOT COLLECTED (9) UNKNOWN</p> <p>TRAILER HITCH TYPE</p> <p>(0) NO HITCH</p> <p>BALL-AND-SOCKET TYPES</p> <p>(1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON) (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK) (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING) (4) LOAD EQUALIZING</p> <p>OTHER TYPES</p> <p>(5) RING-AND-PINTLE (6) FIFTH-WHEEL (INCL P/U) (7) OTHER (E.G. CLEVIS-AND-PIN)</p> <p>(8) EQUIPPED, TYPE UNKNOWN (9) UNKNOWN IF EQUIPPED</p> <p>TRAILER TYPE (AT TIME OF COLLISION)</p> <p>(0) NO TRAILER (1) TRAVEL-TRAILER/CAMPER (2) MOBILE HOME (3) BOAT/SNOWMOBILE/ATV TRAILER (4) UTILITY TRAILER (5) TOWED CAR (7) OTHER: _____ (8) TRAILER, TYPE UNKNOWN (9) UNKNOWN</p>	<p>50</p> <p>51</p> <p>52</p> <p>53</p>
--	--	---	---

RIGHT-SIDE BODY MOUNT DID BODY MOUNT SEPARATE?		8 54	RIGHT DOORS HOW DID DOORS OPEN DURING COLLISION?	
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			USE CODES: (00) DOOR DID NOT OPEN OPENED BECAUSE OF (01) HINGE AREA SEPARATION (02) DOOR-LATCH SEPARATION (03) LATCH-STRIKER SEPARATION (04) STRIKER-PILLAR SEPARATION (05) BODY DISTORTION (06) COMBINATION OF ABOVE (CIRCLE EACH) (07) OPENED, REASON UNKNOWN (11) VAN RIGHT-REAR DOOR OPENED (ANY MECHANISM) (98) NOT APPLICABLE (NO DOOR) (99) UNKNOWN	
RIGHT PILLARS PILLARS SEPARATED COMPLETELY -				
USE CODES: (0) NO (1) YES (4) NO SEPARATION, BUT DAMAGED (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN				
-A-PILLAR, UPPER	4 55			-FRONT 00 63 64
LOWER	4 56			-REAR 00 65 66
-B-PILLAR, UPPER	4 57			
LOWER	4 58		DOORS JAMMED CLOSED- USE CODES: (0) NO (1) YES (8) NOT APPLICABLE (NO DOOR) (9) UNKNOWN	
-C-PILLAR, UPPER	0 59			-FRONT 1 67
LOWER	0 60			-REAR 1 68
-D-PILLAR, UPPER	8 61			
LOWER	8 62		VAN REAR DOOR TYPE (0) VAN, NO REAR DOOR (1) TRACK (SLIDING) - RIGHT SIDE (2) SINGLE-HINGED - RIGHT SIDE (3) DOUBLE-HINGED - RIGHT SIDE (4) TRACK (SLIDING) - RIGHT & LEFT SIDE (5) SINGLE-HINGED - RIGHT & LEFT SIDE (6) DOUBLE-HINGED - RIGHT & LEFT SIDE (7) TRACK AND HINGED COMBINATION (8) NOT APPLICABLE (NOT A VAN) (9) UNKNOWN	8 69

WINDSHIELD DAMAGE

WINDSHIELD CRACKED

(0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

(0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

CRACKED OR BROKEN
BY OCCUPANT CONTACT

(0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

EXTENT OF BOND SEPARATION

(0) NONE
 (1) 1 - 20%
 (2) 21 - 40
 (3) 41 - 60
 (4) 61 - 80
 (5) 81 - 99
 (6) TOTAL
 (7) SEPARATED, AMOUNT
UNKNOWN
 (8) NOT APPLICABLE
 (9) UNKNOWN

70

71

72

73

WINDSHIELD MARK ON CASE VEHICLE:



WINDSHIELD CODE

(97) DESCRIBED BUT NOT CODED
 (98) NOT APPLICABLE (NO WINDSHIELD)
 (99) UNKNOWN

97
74 75

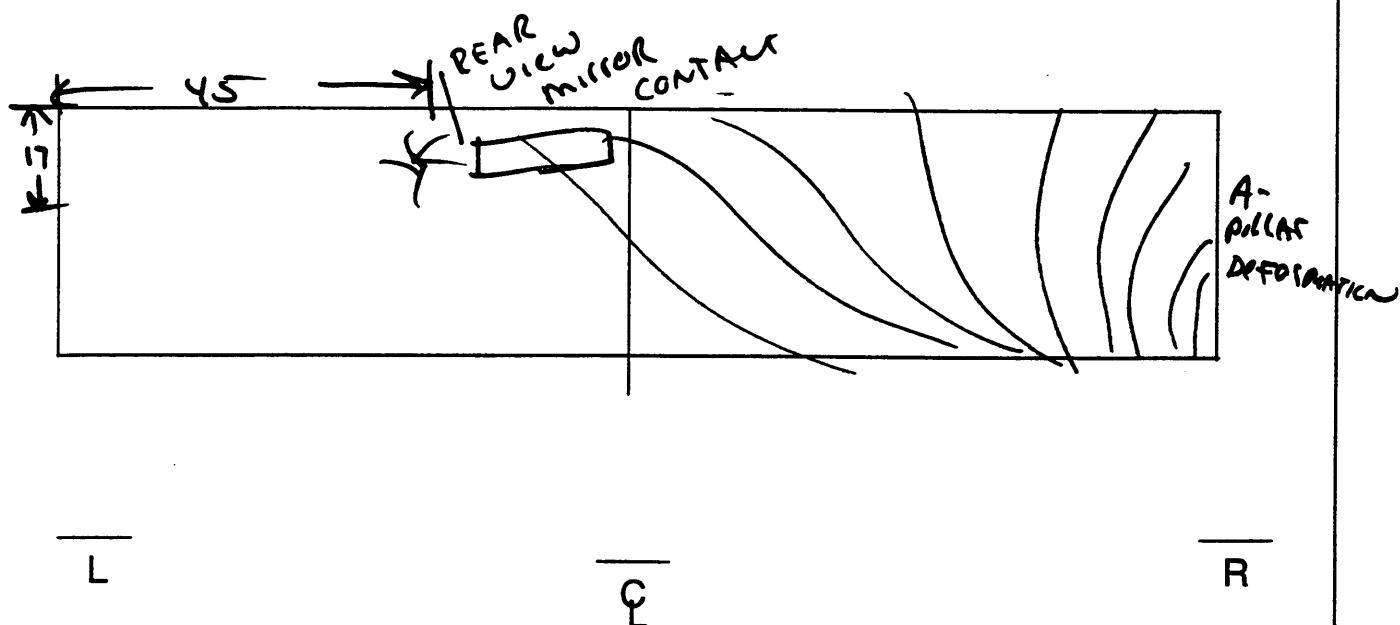
ROOF

DID T-ROOF/SUN ROOF OPEN
DURING COLLISION?

(0) NO
 (1) YES
 (8) NOT APPLICABLE
(NOT A T-ROOF OR SUN ROOF)
 (9) UNKNOWN

8
76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



STEERING WHEEL**STEERING WHEEL RIM DAMAGE**

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

STEERING WHL SPOKE DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

STEERING COLUMN OPTIONS**TIILT FEATURE***down at
ins.*

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED, UNK POSITION
- (2) UP
- (3) MIDDLE
- (4) LOWER
- (9) UNKNOWN IF EQUIPPED

SWING-AWAY FEATURE

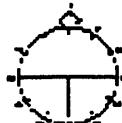
- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

TELESCOPING FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

0
134
140
154
160
170
18**STEERING WHEEL POSITION AT TIME OF COLLISION**

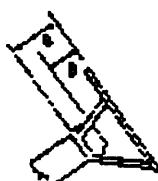
IN WHAT O'CLOCK POSITION WAS THE NORMAL TOP OF THE WHEEL POINTED WHEN THE COLLISION OCCURRED?

EXAMPLESO'CLOCK = 1 2O'CLOCK = 0 2

(99) UNKNOWN

STEERING WHEEL ENERGY ABSORBING DEVICE**(1) EXAMPLES:**

BARRACUDA, 70-74
CHALLENGER, 70-74
CAPRI, 71-77

**(2) EXAMPLES:**

OMNI, 78-
HORIZON, 78-

TYPE OF DEVICE

- (0) NONE
- (1) CONVOLUTED OR MESH CYLINDER
- (2) DEEP DISH STEERING WHEEL
- (7) OTHER: _____
- (8) NOT COLLECTED
- (9) UNKNOWN IF EQUIPPED

8
19**ORIGINAL DIMENSION (mm)**

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO MEASURE
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

8 8 8
20 22

STEERING COLUMN

ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
- (88) NOT COLLECTED
- (99) UNKNOWN

8 8
—
23 24

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODE 36, 48,
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ± 10)

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

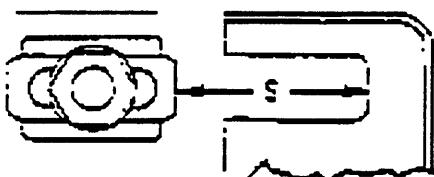
8 8 8
—
25 27

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT SEPARATION
- (992) SEPARATED, AMOUNT UNKNOWN
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

8 8 8
—
28 30

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
- (1) UPWARD APPARENT ROTATION
- (2) DOWNWARD APPARENT ROTATION
- (9) UNKNOWN

0
—
31

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION
- (1) LEFT APPARENT ROTATION
- (2) RIGHT APPARENT ROTATION
- (9) UNKNOWN

0
—
32

STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE
- (1) OCCUPANT CONTACT
- (2) AIRBAG
- (3) OTHER _____
- (9) UNKNOWN

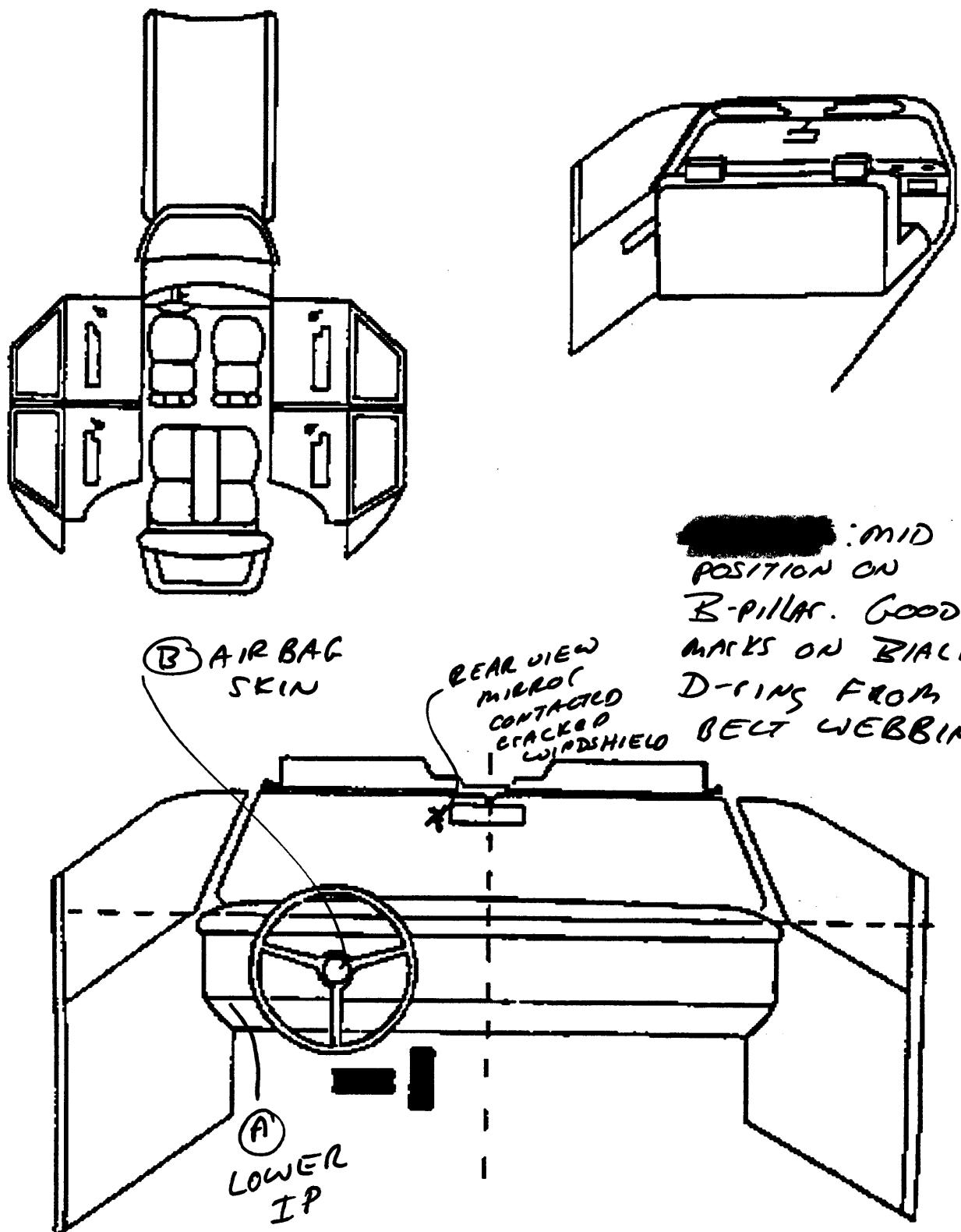
0
—
33

INTRUSION IT-1

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	LOWER ID	1	KNEE	7cm long scuff	1
B	AIRBAG	1	FACE	MAKEUP	1
C					
D					
E					
F					
G					
H					
I					
J					

VEHICLE OCCUPANT CONTACT DIAGRAM



CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

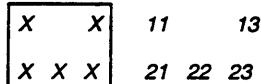
THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

(1) LEFT	(3) RIGHT	INDIVIDUAL SEAT		
(1) LEFT	(2) CENTER	(3) RIGHT	BENCH: FULL WIDTH 3 PASSENGER	
(1) LEFT	(2) LEFT CENTER	(6) RIGHT	(3) RIGHT	BENCH: FULL WIDTH 4 PASSENGER
(1) LEFT	(2) CENTER	(5) RIGHT &	AISLE SPACE	BENCH: PARTIAL WIDTH, LEFT AISLE SPACE
(0) LEFT & SPACE	(2) CENTER	(5) RIGHT & SPACE	BENCH: PARTIAL WIDTH, CENTERED	
(4) ENTIRE VEHICLE WIDTH				CARGO AREA

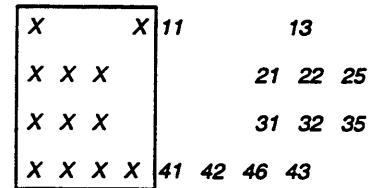
EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS



VAN
12 PASSENGER CAPACITY



CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
- (Y) Y-AXIS (LATERAL)
- (Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	<u>CONTACT</u>
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT	GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE	
INTERNAL	<i>USE ONLY IF ALL THESE COMPONENTS INTRUDED INTO A SINGLE OCCUPANT SPACE.</i>	
(01) INSTRUMENT PANEL	(50) WINDSHIELD HEADER	(60) ROOF
(02) FIRE WALL	A-PILLAR	ROOF RAIL
(03) TOE PAN	ROOF SIDE RAIL	A-PILLAR
(04) FLOOR PAN		B-PILLAR
(05) STEERING COLUMN	(51) INSTRUMENT PANEL	C-PILLAR
(06) WINDSHIELD	A-PILLAR	WINDOW FRAME
(07) WINDSHIELD HEADER	DOOR PANEL	DOOR PANEL
(08) A-PILLAR		FLOOR PAN
(09) DOOR PANEL OR SIDE PANEL	(52) INSTRUMENT PANEL	(61) INSTRUMENT PANEL
(10) WINDOW FRAME	A-PILLAR	TOE PAN
(11) B-PILLAR	WINDSHIELD HEADER	WINDSHIELD HEADER
(12) C-PILLAR		A-PILLAR
(13) D-PILLAR	(53) DOOR PANEL	ROOF RAIL
(14) ROOF SIDE RAILS	B-PILLAR	WINDOW FRAME
(15) ROOF OR CONVERTIBLE TOP	ROOF RAIL	DOOR PANEL
(16) BACKLIGHT HEADER		ROOF
(17) FRONT SEAT-BACK SURFACE/ SEAT-BACK BACK SURFACE	(54) DOOR PANEL	(62) ROOF
(18) SECOND SEAT-BACK SURFACE/ SEAT-BACK BACK SURFACE	A-PILLAR	ROOF RAIL
(19) THIRD SEAT-BACK SURFACE/ SEAT-BACK BACK SURFACE	ROOF RAIL	C-PILLAR
(20) FOURTH SEAT-BACK SURFACE/ SEAT-BACK BACK SURFACE	(55) INSTRUMENT PANEL	WINDOW FRAME
(21) FIFTH SEAT-BACK SURFACE/ SEAT-BACK BACK SURFACE	FLOOR PAN	FLOOR PAN
(22) BACK PANEL/BACK DOOR SURFACE	A-PILLAR	SECOND SEAT
(23) SEAT CUSHION SURFACE/EDGE	B-PILLAR	DOOR PANEL
(24) CONSOLE	WINDOW FRAME	
(25) OTHER (<i>DESCRIBE</i>)	(56) ROOF RAIL	(63) ROOF RAIL
(26) UNKNOWN INTERNAL SURFACES	A-PILLAR	ROOF
(28) TRANSMISSION TUNNEL (HUMP)	B-PILLAR	B-PILLAR
(29) SIDE FOOTWELL PANEL (KICKPANEL)	C-PILLAR	WINDOW FRAME
(30) SILL	DOOR PANEL	FLOOR PAN
EXTERNAL		DOOR PANEL
(43) HOOD	(57) ROOF RAIL	SECOND SEAT
(44) OBJECT EXTERNAL TO PASSENGER COMPARTMENT BUT PART OF CASE VEHICLE	A-PILLAR	FRONT SEAT
(45) OUTSIDE SURFACE OF CASE VEHICLE	B-PILLAR	
(46) OTHER (E.G. SPARE TIRE, JACK. <i>DESCRIBE</i> .)	C-PILLAR	(64) ROOF RAIL
(49) UNKNOWN EXTERNAL OBJECT	DOOR PANEL	ROOF OR CONVERTIBLE TOP
	(58) ROOF	A-PILLAR
	ROOF RAIL	B-PILLAR
	WINDOW FRAME	WINDOW FRAME
	DOOR PANEL	WINDOW HEADER
	(59) BACKLIGHT HEADER	(65) WINDSHIELD
	ROOF	WINDSHIELD HEADER
	C-PILLAR	ROOF SIDE RAIL
	THIRD SEAT-BACK	
		(66) WINDSHIELD
		WINDSHIELD HEADER
		A-PILLAR
		(98) NOT APPLICABLE
		(99) UNKNOWN

Duplicate columns 1-8 from the previous card.

Module I T Format 0 1
 9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION?

13

WAS INTRUSION CATASTROPHIC?

0

(0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.
 (1) YES ANSWER NEXT QUESTION.
 (9) UNKNOWN SKIP PAGE.

(0) NO COMPLETE PAGE.
 (1) YES SKIP PAGE.

Duplicate columns 1-8 from the previous card.

Module I T Format 0 2
 9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.

CODES FOR B, F, G, H, I, J ON PAGE IT-3

CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A INTRUSION NUMBER	B OCC. SPACE NO.	C INTRUDING COMPONENT OR OBJECT	D ASSOC. EVENT NO.	E MAXIMUM INTRUSION X AXIS (cm)	F MAXIMUM INTRUSION Y AXIS (cm)	G MAXIMUM INTRUSION Z AXIS (cm)	H OCCUPANT NUMBER	I INJURY NUMBER	J OCCUPANT NUMBER	K INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
0 1	13	09	1	00	16	00	00	00	00	00
0 2	13	29	1	00	27	00	00	00	00	00
0 3	13	08	1	00	08	00	00	00	00	00
0 4	13	11	1	00	12	00	00	00	00	00
0 5	—	—	—	—	—	—	—	—	—	—
0 6	—	—	—	—	—	—	—	—	—	—
0 7	—	—	—	—	—	—	—	—	—	—

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8 from the previous card.

Module I T Format 0 3
 9 10 11 12

NOTE: IF NO SIDE DOOR INTRUSION, SKIP REMAINDER OF PAGE.

SIDE DOOR INTRUSION
RESULTED FROM

INTRUSION
NUMBER CAUSE

CODES
FOR CAUSE:

0 1 1
 13 15 (1) DIRECT IMPACT
 16 18 (2) INDUCED DAMAGE
 19 21 (9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED
DOOR INTRUSION, CODE COMPONENT

INTRUSION
NUMBER DAMAGED
COMPONENT 1 DAMAGED
COMPONENT 2 CODES
FOR COMPONENTS

A	—	—	—	(0) NONE
	22 23	—	25	(1) A-PILLAR
B	—	—	—	(2) B-PILLAR
	26 27	—	29	(3) C-PILLAR
C	—	—	—	(4) LATCH/STRIKER
	30 31	—	33	(5) HINGES
D	—	—	—	(7) OTHER: _____
	34 35	—	37	(8) NOT APPLICABLE
				(9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 2
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

- ADDITIONAL PAGE -

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.

CODES FOR B, F, G, H, I, J ON PAGE IT-3

CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A INTRUSION NUMBER	B OCC. SPACE NO.	C INTRUDING COMPONENT OR OBJECT	D ASSOC. EVENT NO.	E MAXIMUM INTRUSION INTRUSION X AXIS (cm)	F MAXIMUM INTRUSION INTRUSION Y AXIS (cm)	G MAXIMUM INTRUSION INTRUSION Z AXIS (cm)	H OCCUPANT NUMBER	I INJURY NUMBER	J OCCUPANT NUMBER	K INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
0 8	—	—	—	—	—	—	—	—	—	—
0 9	—	—	—	—	—	—	—	—	—	—
1 0	—	—	—	—	—	—	—	—	—	—
1 1	—	—	—	—	—	—	—	—	—	—
1 2	—	—	—	—	—	—	—	—	—	—
1 3	—	—	—	—	—	—	—	—	—	—
1 4	—	—	—	—	—	—	—	—	—	—
1 5	—	—	—	—	—	—	—	—	—	—
1 6	—	—	—	—	—	—	—	—	—	—
1 7	—	—	—	—	—	—	—	—	—	—
1 8	—	—	—	—	—	—	—	—	—	—
1 9	—	—	—	—	—	—	—	—	—	—
2 0	—	—	—	—	—	—	—	—	—	—
2 1	—	—	—	—	—	—	—	—	—	—
2 2	—	—	—	—	—	—	—	—	—	—
2 3	—	—	—	—	—	—	—	—	—	—
2 4	—	—	—	—	—	—	—	—	—	—
2 5	—	—	—	—	—	—	—	—	—	—

**Duplicate columns 1-8
from the previous card.**

Module I D **Format** 0 1
 9 10 11 12

INTERIOR DAMAGE

ID-1

CODES:

(0) NO
(1) YES
(3) NO, and OCCUPANT CONTACT

(4) YES, and OCCUPANT CONTACT
(8) NOT APPLICABLE
(9) UNKNOWN

SIDES	LEFT	RIGHT	FRONT		INSTRUMENT PANEL
FRONT DOOR	13	14	FOOT CONTROLS	45	UPPER PANEL
FRONT HARDWARE	15	16	HANDLE IGNITION KEYS	46	MID PANEL
FRONT ARMREST	17	18	REAR VIEW MIRROR	47	LOWER PANEL
FRONT GLASS	19	20	SUNVISOR/FITTINGS	48	ASHTRAY
REAR DOOR AREA	21	22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS
REAR HARDWARE	23	24	WINDSHIELD TOP MOLDINGS	49	GLOVE COMPARTMENT AREA
REAR ARMREST	25	26	LEFT A-PILLAR (UPPER OR LOWER)	50	INSTRUMENTS
REAR GLASS	27	28	RIGHT A-PILLAR (UPPER OR LOWER)	51	PARKING BRAKE RELEASE
ROOF SIDE RAIL	29	30	CENTER CONSOLE	52	PARKING BRAKE PEDAL
B-PILLAR	31	32	TRANSMISSION SELECTOR LEVER	53	A/C OR UPPER VENT OUTLETS
C-PILLAR	33	34	RIM, HORN, SPOKE	54	HEATER OR A/C DUCTS
D-PILLAR	35	36			RADIO
HEADLINING	37	38			OTHER: * _____
ROOF STRUCTURE	39	40			_____
T-ROOF/SUN ROOF	41	42			_____
OTHER: * _____	43	44			
					Rear Window
					Window Header
					Consoles
					Vertical
					Roof

* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8
from the previous card.

Module S
9 T
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11 2
12

SEATS

ST-1

FRONT SEAT				FRONT SEAT-BACK			
Type of Front Seat		Driver	Passen'r	Seat-Back Type		Driver	Passen'r
(00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN		<u>OS</u> 13 14	<u>OS</u> 15 16	(1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>3</u> 30	<u>3</u> 31
Type of Seat Mount		1	1	Seat-Back Lock Type		1 32	1 33
(1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		17	18	(0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN			
Swivel Mechanism Equipped		<u>O</u> 19	<u>O</u> 20	Locks Held		1 34	1 35
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN				(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			
Original Equipment Seats		1	1	Recliner Mechanism Held		1 36	1 37
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		21	22	(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			
Contact of Seat by Rear Occupant		8	8	Head Restraint			
(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		23	24	Head Restraint Type		1 38	1 39
Front Seat Damage		<u>O</u> 25	<u>3</u> 26	(0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN			
(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (9) UNKNOWN IF EQUIPPED				(0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN			
Center Armrest Damaged		1		Removed Pre-Crash		<u>O</u> 40	<u>O</u> 41
(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (9) UNKNOWN IF EQUIPPED		27		(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN			
Front Seat Rotation		<u>O</u> 28	<u>3</u> 29	Adjustment at Crash		<u>2</u> 42	<u>2</u> 43
(0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN				(1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN			
				Head Restraint Damage		<u>O</u> 44	<u>O</u> 45
				(0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN			

FRONT SEAT ADJUSTMENT		DRIVER	PASSENR	SECOND SEAT (CONT.)		
SEAT ADJUSTMENT TYPE		<u>1</u> 46	<u>1</u> 47	CENTER ARMREST DAMAGED	<u>8</u> 60	
(0) NONE (<i>RIGID</i>) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (<i>NO SEAT</i>) (9) UNKNOWN				(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (<i>NO CENTER ARMREST</i>) (9) UNKNOWN IF EQUIPPED		
ADJUSTMENT PROVIDED		<u>1</u> 48	<u>1</u> 49	SECOND SEAT-BACK LOCKS	LEFT	RIGHT
(1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN				FOR THE FOLLOWING, USE:		
(0) NONE (1) CHUCKING (<i>FREE PLAY</i>) (2) DEFORMED (<i>RELEASED/JAMMED</i>) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 50	<u>2</u> 51	(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	<u>8</u> 61	<u>8</u> 62
SEAT ADJUSTER DAMAGE				LEFT OR CENTER, EQUIPPED	<u>8</u> 63	<u>8</u> 64
(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 52	<u>8</u> 53	LEFT OR CENTER, HELD	<u>8</u> 65	<u>8</u> 66
SEAT ADJUSTER SEPARATION				RIGHT, EQUIPPED	<u>8</u> 67	<u>8</u> 68
(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN				RIGHT, HELD		
PRE-CRASH POSITION		<u>1</u> 54	<u>3</u> 55	(3) SEAT FOLDED DOWN		
(1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN		<i>MID</i> <i>TO</i> <i>CLOX</i>				
SECOND SEAT		LEFT	RIGHT	THIRD SEAT		
TYPE OF SECOND SEAT				EQUIPPED	<u>0</u> 69	<u>0</u> 70
(0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN		<u>1</u> 56	<u>1</u> 57	BACKREST DAMAGED	<u>8</u> 71	<u>8</u> 72
SECOND SEAT DAMAGE				CUSHION DAMAGED	<u>8</u> 73	<u>8</u> 74
(0) NONE (1) BACKREST ONLY (<i>DAMAGED OR LOOSENERED</i>) (2) CUSHION ONLY (<i>DAMAGED OR LOOSENERED</i>) (3) BACKREST & CUSHION (<i>DAMAGED OR LOOSENERED</i>) (4) INTEGRAL CHILD SEAT (<i>PRIORITY CODE</i>) (5) LUGGAGE AREA ACCESS PANEL (<i>DAMAGED OR LOOSENERED</i>) (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 58	<u>0</u> 59	VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS		
				(0) NOT EQUIPPED (<i>OR REMOVED</i>) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (<i>NO REAR SEAT</i>) (9) UNKNOWN	<u>0</u> 75	
				<i>Applies to any rear-seat position</i>		

Duplicate columns 1-8
from the previous card.

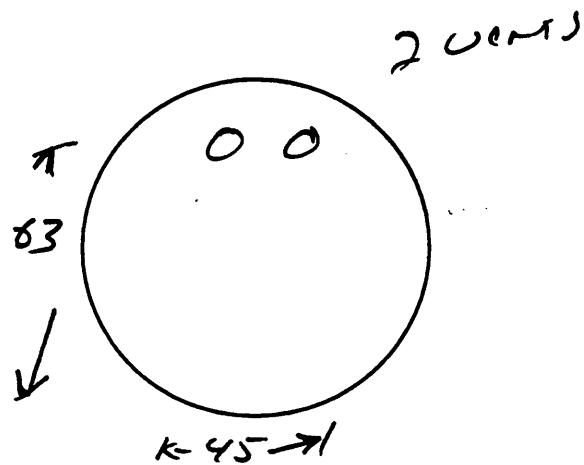
Module A 9 B 10 Format 0 11 1 12

AIRBAG AB-1

DRIVER SIDE		PASSENGER SIDE	
LOCATION OF AIRBAG		LOCATION OF AIRBAG	
STEERING WHEEL		INSTRUMENT PANEL (GLOVE BOX)	
EQUIPPED		EQUIPPED	
(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED		(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED	
DEPLOYED		DEPLOYED	
(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN		(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	
CONDITION OF AIRBAG		CONDITION OF AIRBAG	
STEERING WHEEL		INSTRUMENT PANEL (GLOVE BOX)	
(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION		(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION	
DRIVER SIDE		PASSENGER SIDE	
AIRBAG		AIRBAG	
STEERING WHEEL		INSTRUMENT PANEL (GLOVE BOX)	
TETHER		TETHER	
(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED		(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED	
MARKED BY CONTACT		MARKED BY CONTACT	
(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN		(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	

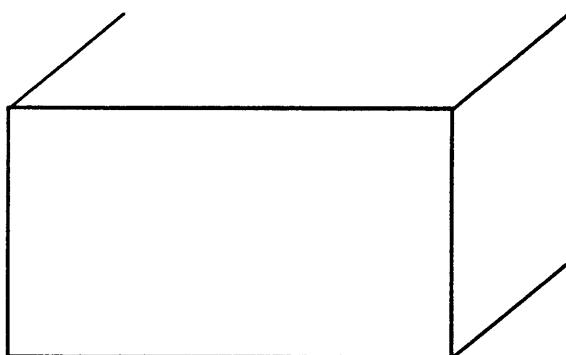
AIRBAG NUMBER ON DRIVER SIDE:

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:



AIRBAG NUMBER ON PASSENGER SIDE:

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:



NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8
from the previous card.Module O
9 C
10 Format 0
11 2
12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION		01 13 14	PHYSICAL DESCRIPTION	
OCCUPANT NUMBER	AGE IN YEARS (00) LESS THAN 1 YEAR (98) 98 YEARS OR OLDER (99) UNKNOWN		20 20 21	
ROLE OF OCCUPANT AT 1ST IMPACT (1) MOTOR VEHICLE DRIVER (2) MOTOR VEHICLE PASSENGER (NOT DRIVER) (9) UNKNOWN	1 15	AGE IN MONTHS (00) LESS THAN 1 MONTH (25) 25 MONTHS OR OLDER (99) UNKNOWN	25 22 23	
OCCUPANT POSITION	1 16	MASS (kg) (999) UNKNOWN 130	059 24 25 26	
ROW LOCATION (1) FRONT (2) SECOND (3) THIRD (4) FOURTH (7) OTHER: (8) EXTERNAL TO PASSENGER COMPARTMENT (E.G. BED OF PICKUP) (9) UNKNOWN		HEIGHT (cm) (999) UNKNOWN 5'4	163 27 28 29	
LATERAL LOCATION (1) LEFT (2) LEFT CENTER (3) CENTER (4) RIGHT CENTER (5) RIGHT (6) ALL (LYING ON SEAT) (8) EXTERNAL TO PASSENGER COMPARTMENT (9) UNKNOWN	1 17	SEX (1) MALE (2) FEMALE (9) UNKNOWN 2 30		
POSTURE (10) SITTING ON SEAT (11) SITTING ON SEAT IN ABNORMAL POSITION (E.G. FEET ON DASH, SIDeways) (12) SITTING ON CONSOLE (20) ON LAP OR IN ARMS (30) STANDING ON SEAT (40) STANDING ON FLOOR (47) STANDING, EXTERNAL TO PASSENGER COMPARTMENT (50) IN BASSINET (60) IN CHILD SEAT (65) IN CHILD HARNESS (70) LYING ON SEAT (80) LYING/SITTING ON PASSENGER FLOOR (83) LYING/SITTING ON OTHER OBJECT IN PASSENGER COMPARTMENT: (85) ON CARGO FLOOR/FOLDED SEAT-BACK (87) LYING/SITTING, EXTERNAL TO PASSENGER COMPARTMENT (97) OTHER: (99) UNKNOWN	10 18 19	MEDICAL CONDITIONS		
		TREATMENT/MORTALITY (00) NONE (01) FIRST AID AT SCENE (02) TREATED AT HOSPITAL/CLINIC BUT NOT ADMITTED (03) HOSPITALIZED FOR OBSERVATION LESS THAN 24 HOURS (04) HOSPITALIZED OVER 24 HOURS OR FOR SIGNIFICANT TREATMENT (05) FATAL, DEAD AT SCENE (06) FATAL, DOA (07) FATAL, DEAD WITHIN 24 HOURS (08) FATAL, DEAD 24 HOURS TO 31 DAYS LATER (09) FATAL, DEAD 31 DAYS TO 1 YEAR LATER (10) FATAL DEAD WITHIN UNKNOWN PERIOD (99) UNKNOWN 02 31 32		
		INJURY SEVERITY SCORE (ISS) (99) UNKNOWN 03 33 34		
		NON-IMPACT MED. CONDITIONS (0) NONE (1) YES, TIME & TYPE UNKNOWN (2) PRE-CRASH FATAL (CLINICAL DEATH AT WHEEL) (3) PRE-CRASH NON-FATAL (E.G. PRIOR INJURY, STROKE) (4) PREGNANT (5) POST-CRASH FATAL (DROWNING) (6) POST-CRASH NON-FATAL INJURY (7) OTHER: (8) COMBINATION OF ABOVE (CIRCLE EACH) (9) UNKNOWN 0 35		

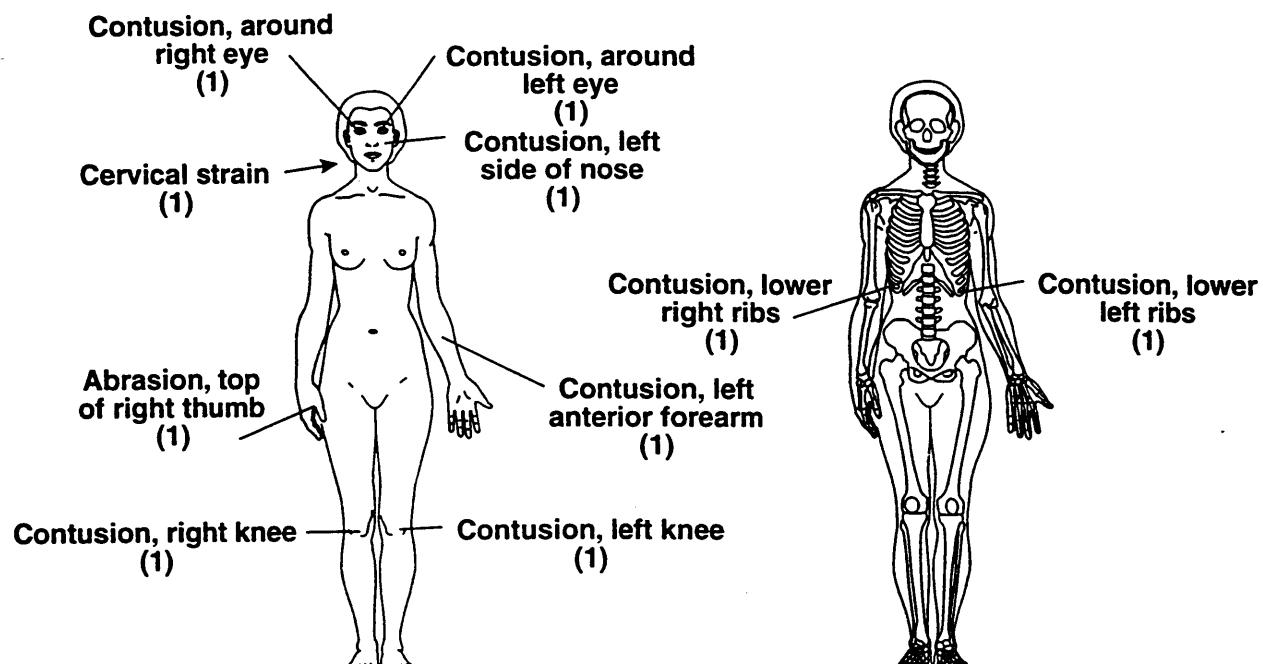
OCCUPANT INFORMATION OC-2

<p>MEDICAL CONDITIONS (CONT.)</p> <p>POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT</p> <p>(0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN</p>	<p>O 36</p>	<p>CHILD SEAT TYPE</p> <p>(00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN</p> <p>CHILD SEAT MAKE/MODEL</p> <hr/> <hr/> <hr/>
<p>RESTRAINT SYSTEM</p> <p>ACTIVE RESTRAINT SYSTEM</p> <p>(0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN</p> <p>ACTIVE RESTRAINT SYSTEM USAGE</p> <p>(0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN</p> <p>PASSIVE RESTRAINT SYSTEM</p> <p>(0) NONE (1) AIRBAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIRBAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN</p> <p>PASSIVE RESTRAINT SYSTEM USAGE</p> <p>(0) SYSTEM DEFEATED (1) AIRBAG NOT DEPLOYED (2) AIRBAG DEPLOYED (3) AIRBAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN</p>	<p>3 37</p> <p>3 38</p> <p>1 39</p> <p>2 40</p>	<p>EJECTION</p> <p>DEGREE OF EJECTION</p> <p>(0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED</p> <p>AREA OF EJECTION</p> <p>(01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED</p> <p>IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:</p> <hr/> <hr/> <hr/>
	<p>88 41 42</p> <p>98 44 45</p>	<p>HEAD RESTRAINT</p> <p>HEAD RESTRAINT AVAILABLE FOR THIS POSITION</p> <p>(0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN</p>

OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR (0) NONE (1) GLASSES (2) CONTACTS (3) BOTH GLASSES AND CONTACTS (4) OTHER _____ (8) NOT APPLICABLE (9) UNKNOWN	<input type="radio"/> 47	SOURCE OF INFORMATION (0) <input checked="" type="radio"/> INTERVIEW (1) HOSPITAL (2) AUTOPSY (3) POLICE (4) OTHER _____ (5) LAY CORONER/EXTERNAL EXAM (7) COMBINATION OF ABOVE (CIRCLE) (8) NOT APPLICABLE (9) UNKNOWN	<input type="radio"/> 48
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INDICATE LOCATION OF INJURIES.



**Duplicate columns 1-8
from the previous card.**

Module 1 C **Format** 0 1
 9 10 11 12

INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD

- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER

- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE

- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)

- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN

- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)

- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM

- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK

- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)

- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

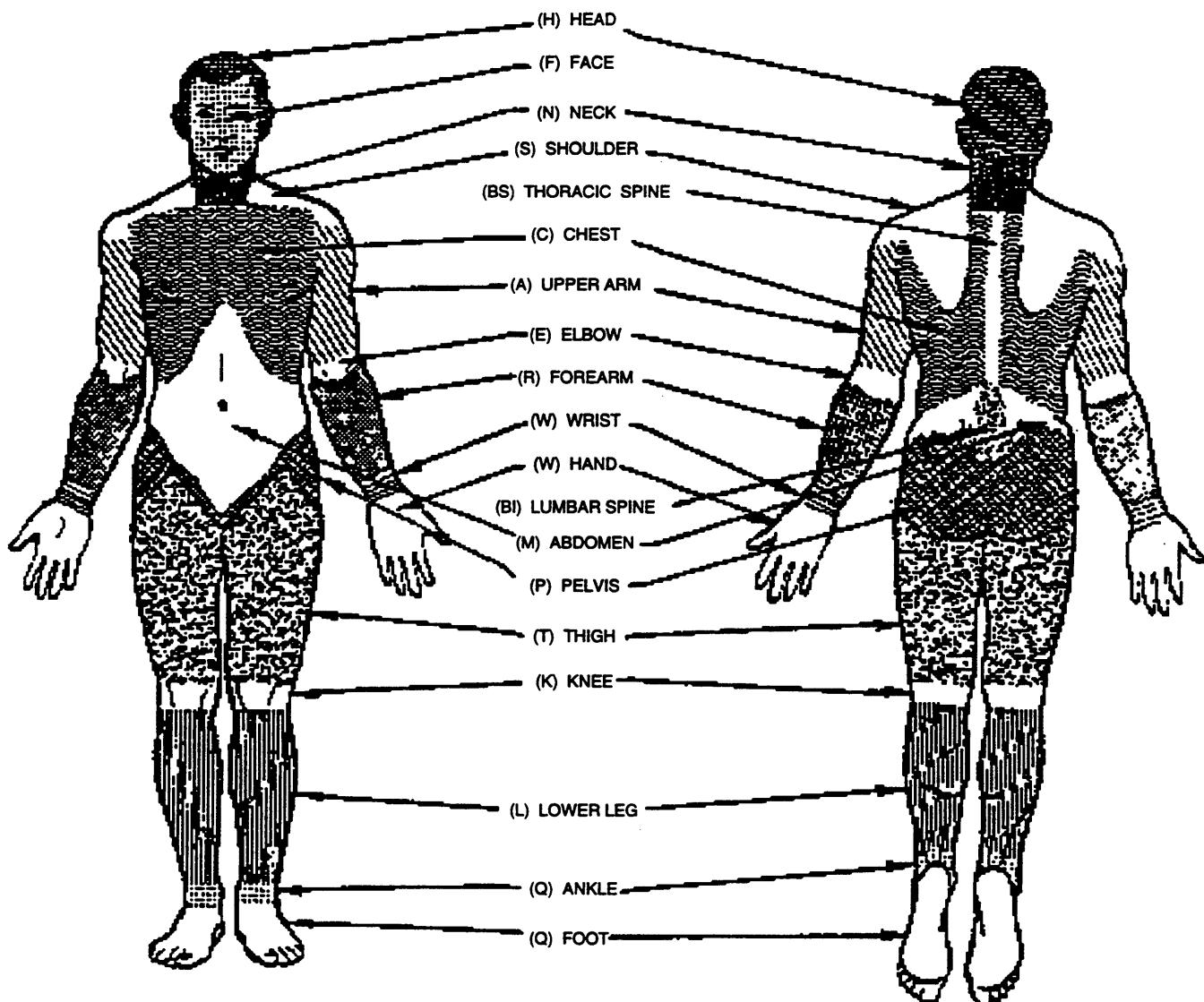
PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (*E.G. FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC - 4.



CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

1 BODY REGION	3 LESION	4 SYSTEM/ORGAN
(H) HEAD/SKULL	(L) LACERATION	(S) SKELETAL
(F) FACE	(C) CONTUSION	(V) VERTEBRAE
(N) NECK	(A) ABRASION	(J) JOINTS
(S) SHOULDER	(F) FRACTURE	(D) DIGESTIVE
(X) UPPER EXTREMITIES	(P) PERFORATION, PUNCTURE	(L) LIVER
(A) ARM (UPPER)	(K) CONCUSSION	(N) NERVOUS SYSTEM
(E) ELBOW	(V) AVULSION	(B) BRAIN
(R) FOREARM	(R) RUPTURE	(C) SPINAL CORD
(W) WRIST/HAND	(S) SPRAIN	(E) EARS
(C) CHEST	(D) DISLOCATION	(O) EYES
(M) ABDOMEN	(N) CRUSH	(A) ARTERIES
(B) BACK	(M) AMPUTATION	(H) HEART
(P) PELVIC/HIP	(B) BURN	(Q) SPLEEN
(Y) LOWER EXTREMITIES	(G) DETACHMENT, SEPARATION	(G) UROGENITAL
(T) THIGH	(Z) FRACTURE AND DISLOCATION	(K) KIDNEYS
(K) KNEE	(T) STRAIN	(R) RESPIRATORY
(L) LEG (LOWER)	(E) TOTAL SEVERANCE, TRANSECTION	(P) PULMONARY/LUNGS
(Q) ANKLE/FOOT	(O) OTHER	(M) MUSCLES
(O) WHOLE BODY	(U) UNKNOWN	(T) THYROID, OTHER ENDOCRINE GLAND
(U) UNKNOWN		(I) INTEGUMENTARY (SKIN)
		(W) ALL SYSTEMS IN REGION
		(U) UNKNOWN

2 ASPECT
(R) RIGHT
(L) LEFT
(B) BILATERAL
(C) CENTRAL
(A) ANTERIOR/FRONT
(P) POSTERIOR/BACK
(S) SUPERIOR/UPPER
(I) INFERIOR/LOWER
(W) WHOLE REGION
(U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN			
			1	2	3	4
						5

5 SEVERITY (OR "AIS", ABBREVIATED INJURY SCALE)
(0) NONE
(1) MINOR
(2) MODERATE
(3) SERIOUS
(4) SEVERE
(5) CRITICAL
(6) MAXIMUM
(9) UNKNOWN

Case No. 34-00

Case Year [5]: 1998 Partial

Type: Death on Job, 4-hour notice

Driver: 22-year-old female

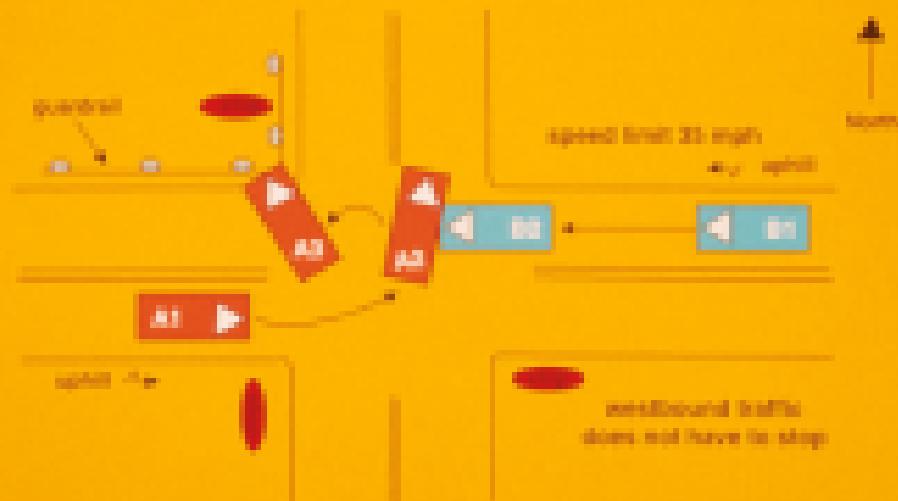
Vehicle: (E) Ford Crown Victoria Police Interceptor

Weather: cloudy

Road Surface: Dry

Road Condition: Asphalt

Light Conditions: Daylight





STOP

PN 3498 #2



PN 3498 #3



PN 3498 #4



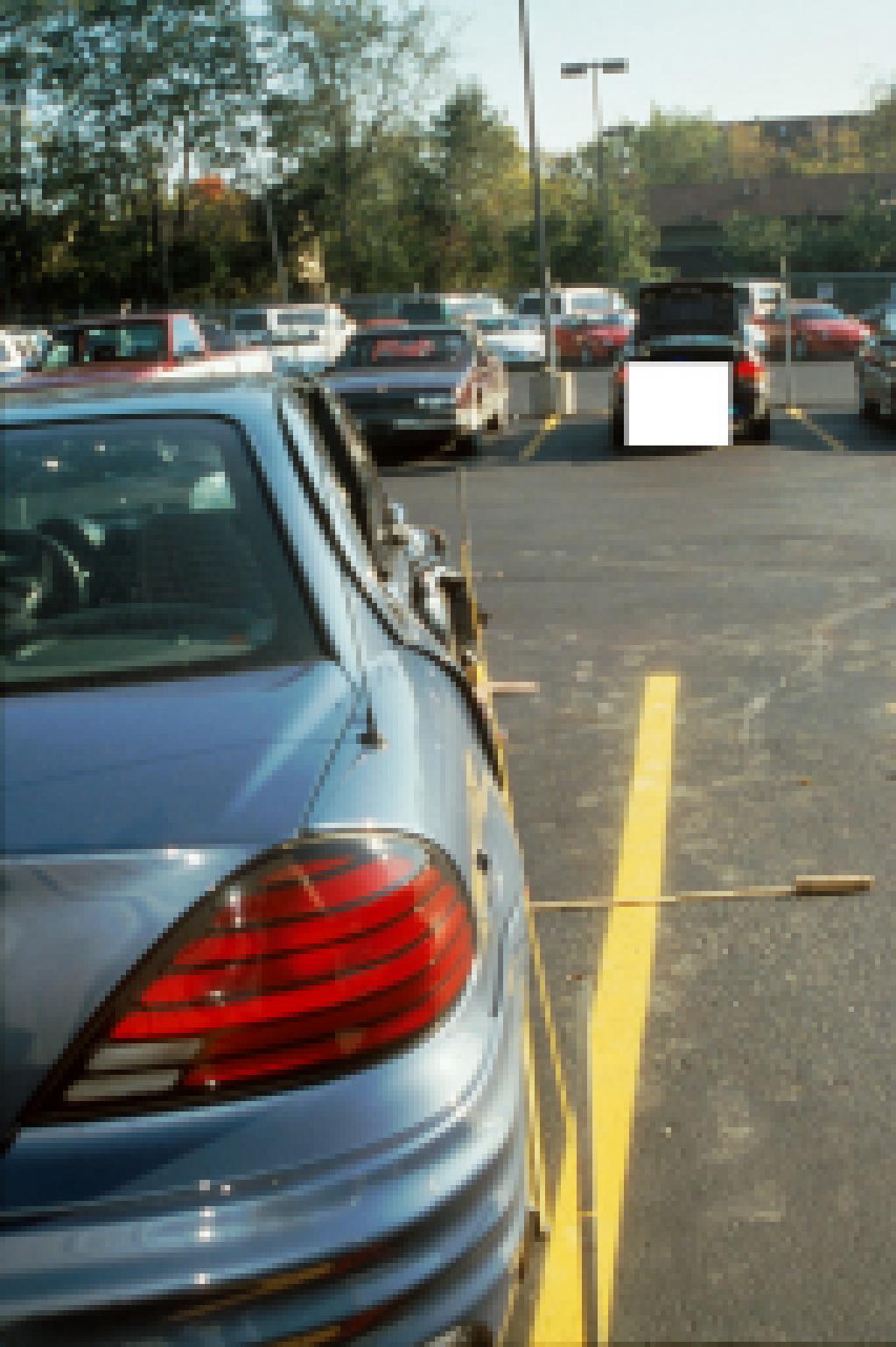
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Best Available



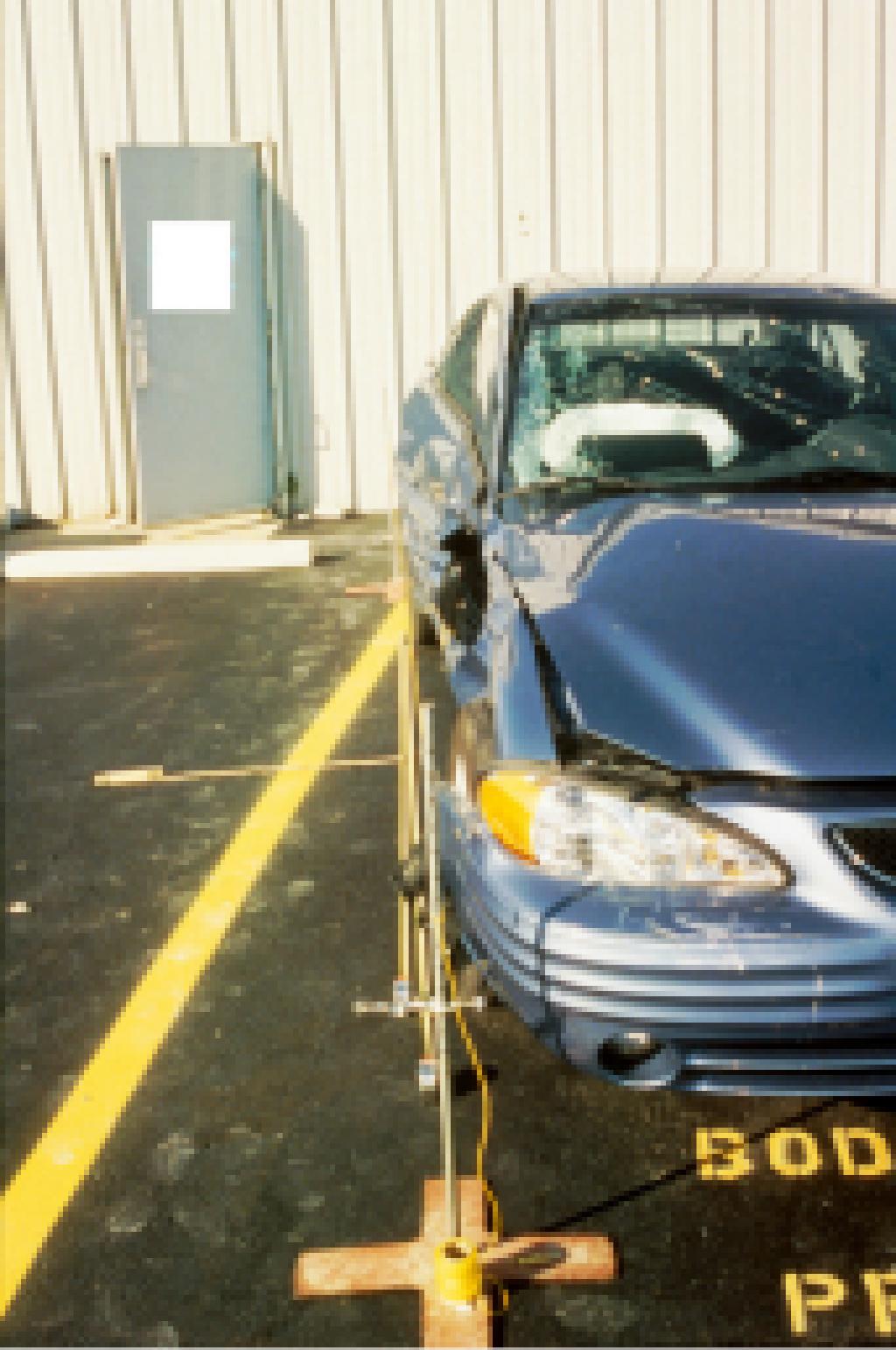
**PN 3498 #6
Best Available**



PN3498 #7
Best Available



PN 3498 #8
Best Available



**PN 3498 #9
Best Available**



PN3498 #10
Best Available



PN 9499 #11



PN 3498 #12
Best Available



PN 3498 #13
Best Available



PN 3498 #14



PN 3498 #15



8681 8588
AP 14 PROCESSION

PN 3498 #16



PN 3498 #17
Best Available



PN3498 #18
Best Available



PN 3498 #19



PN 3498 #20

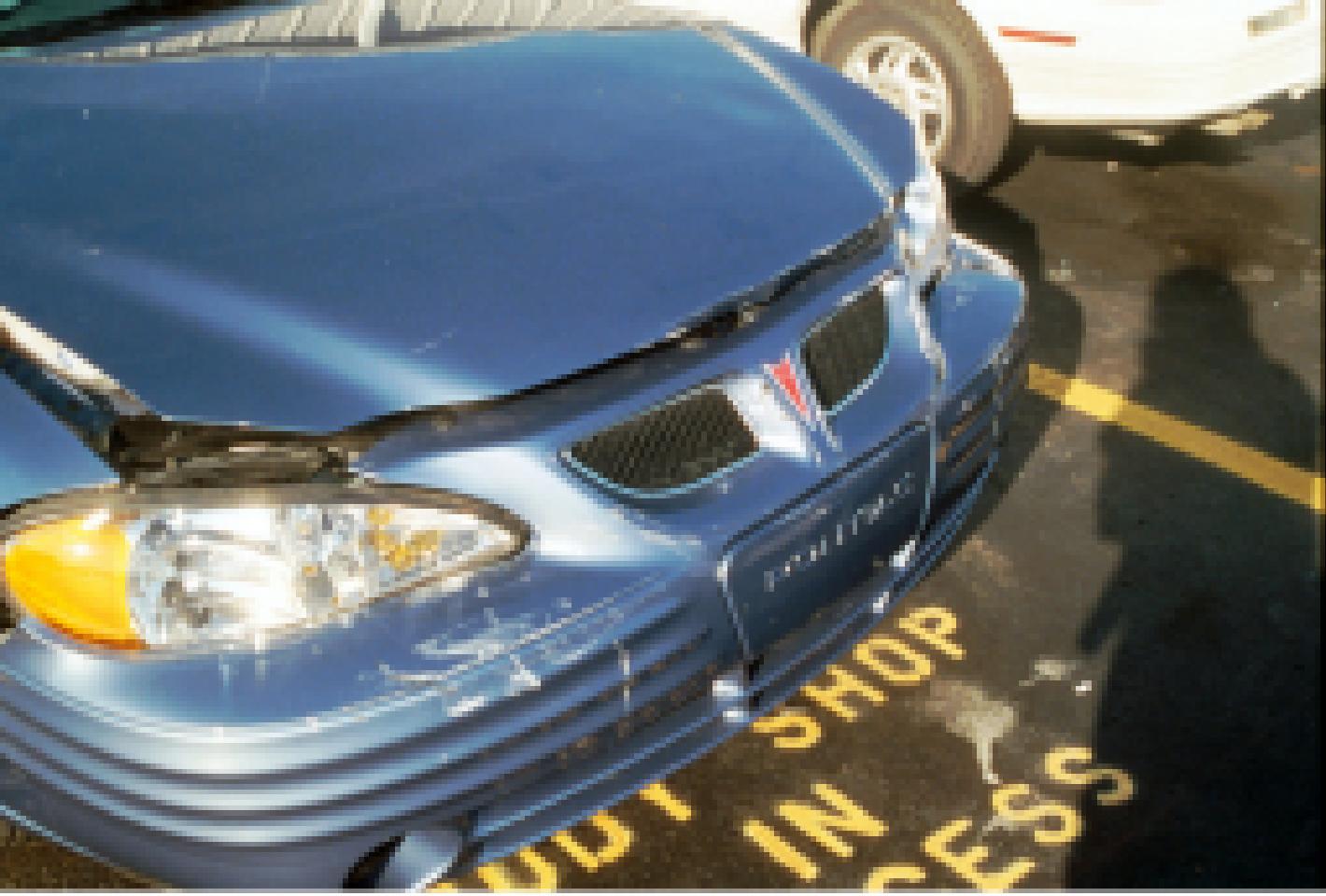


PN 3498 #21



BODY
IN
PROCESS

PN3498 #22



PN 3498 #23



PN 3498 #24



PN3496 #25



PN 3498 #26



PN 3498 #27



PN 3498 #29



PN 3498 #29



PN 3498 130



PN 3498 #31



PN 3498 #32



PN 3498 #33



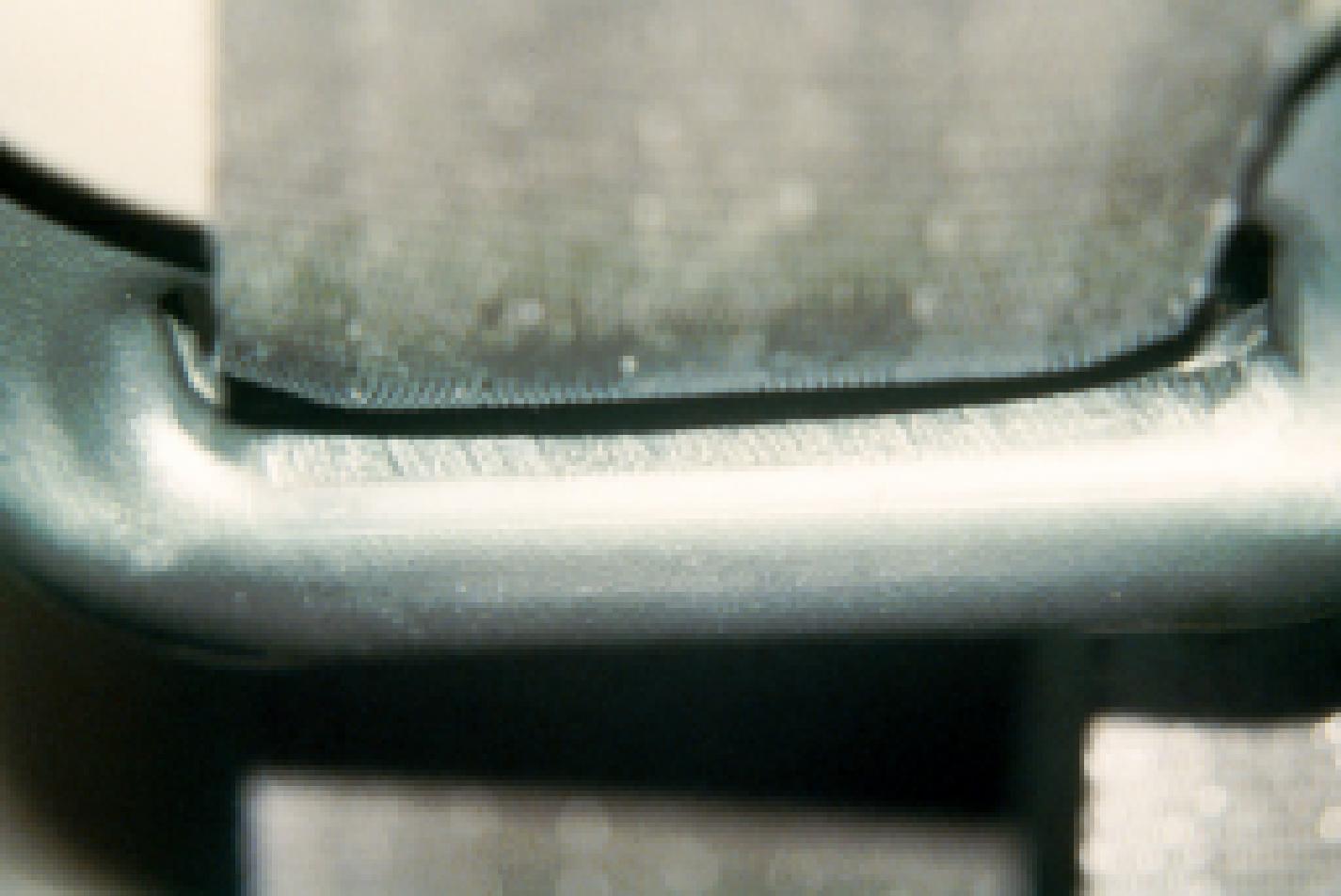
PN3498 #34



PN 3498 #35



PN 3498 #38



PN 3498 #37

Ambergris Caye

PN 3498 #38



PN 3498 #39

CASE NO.: 94-98

Date of birth: 1966 female

EDUCATION: Grand Am HS, 9th grade

Obtained: 1997-09-06 10:00:00 hours

Height: 160 cm (5 ft 3 in) Weight: 68 kg (130 lb)

DEATH: 1997-09-06 07:00:00 hours; cause unknown

SEX: Female AGE: 31 RACE: White

